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DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

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INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was somewhat dull and mild, the proportion of bright sunshine being deficient and the temperature above the average. Showers were frequent and the precipitation exceeded the average in northern districts, also locally in the southern portion; nevertheless there was much bright weather during the first week and last eight days and the precipitation elsewhere was light. On the higher levels of the upper mainland temperatures below zero occurred frequently from the 6th to 23rd, but on the lower levels zero was not reached during the month. On the 31st the ground was bare over the greater portion of southern and western British Columbia, but from Cariboo a depth of eighteen inches was reported.

In the North-West Provinces the weather was unusually fine, compartively mild and dry: much bright sunshine occurred from the 3rd to 12th and 21st to 31st and high temperatures prevailing from the 3rd to 13th and 24th to 30th. Precipitation was recorded at many places during the first three or four days, also frequently from the 11th to 23rd. In the south-western portion the ground was practically bare on the 31st, whilst in other localities the depth of snow was from three to nine inches. A strong gale occurred on the 4th and high winds were reported on the 5th, 17th, 29th and 30th.

The weather in Manitoba was comparatively mild, more especially from the 4th to 14th and 25th to 31st, the temperature on the 10th exceeding 40° at several places. On or about the 23rd temperatures between —30° and —38° were general. Much bright sunshine occurred, the weather being fair in most localities from the 1st to 13th and 22th to 30th. Snow was general and frequent from the 14th to 22nd, also on or about the 29th, and with a few local exceptions it exceeded the average. On the 31st there was enough snow for sleighing in some districts whilst in others there was only a light covering.

In Ontario the weather was almost phenomenally mild, the mean temperature exceeding the average at the various stations by 6° to 14°. These mild conditions were especially marked from the 1st to 5th and 12th to 31st when the temperature rose well above the freezing point almost daily in south-western districts: and on or about the 21st 60° was exceeded at many places. Bright sunshine also exceeded the average and there was much fine weather from the 9th to 16th and 24th to 31st. The precipitation, though somewhat heavy at stations west and north of Muskoka and Parry Sound Districts, and was generally quite light elsewhere, the falls occurring chiefly between the 4th and 9th and 16th to 23rd. On the 31st the ground was bare over the greater portion of the province. Almost spring-like conditions prevailed in southern districts late in the month ploughing being possible in some places.

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The weather in the Province of Quebec was characterised by exceptionally high mean temperatures an excess of 4° to 9° being general. From the 3rd to 6th and 11th to 31st 32° was frequently exceeded in western districts and on the 23rd 62° was recorded at Brome. The precipitation which occurred chiefly on or about the 1st, 4th to 6th, 12th, 16th, 20th, 23rd and 31st was light, the aggregate amount being less than the average. On the last day of the month the ground was almost bare in the western portion of the Province, and elsewhere it did not exceed 20 inches and was generally less than this. The proportion of bright sunshine was less than the average, but there was much fine weather between the 9th and 16th and 24th to 31st.

The weather in New Brunswick was unusually mild, the temperature in some districts rising well above the freezing point almost every day; and on or about the 23rd 50° was exceeded. The precipitation which occurred at most places on or about the 5th, 13th, 17th, 21st, 25th and 31st was in the aggregate comparatively light. On the 31st the ground was bare in southern districts and there was little snow elsewhere. Much fine weather was recorded between the periods of precipitation, but the proportion of bright sunshine did not exceed the average.

In the Province of Nova Scotia the weather conditions were similar to those in New Brunswick, the mean temperature exceeding the average considerably and the precipitation being deficient. From the 2nd to 4th, 8th to 12th, 20th, 25th to 27th and 30th, the weather at night was comparatively cold; and on or about the 9th and following two days temperatures below zero were recorded. On the 24th and 25th 50° was exceeded at many places, the daily range on the second date being as much as 40° at some stations. Rain or snow occurred on or about the 5th and 10th, and rain was frequent from the 13th to 21st, 25th and 31st; the intervening periods were mostly fine and with much sunshine. On the 31st harbours and bays were free of ice and the ground was bare.

The weather in Prince Edward Island was exceedingly mild and dry, the conditions being quite similar to those in the last-named province. The precipitation which was mostly rain was recorded chiefly on the 2nd, 4th, 12th, 16th to 21st and 24th, and there was much fine bright weather during the intervening periods. On the 31st the ground was bare throughout the province.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for January exceeded the average from Eastern Ontario to the Maritime Provinces; elsewhere in Canada it was deficient. The extremes of departure from normal were −0·10 of an inch at Prince Albert, Sask., and +0·15 of an inch at St. John, N.B.

HIGH AREAS.

Eight areas of high pressure were traced during the month and with few exceptions they displayed feeble energy and they were seldom attended by any very low temperature.

LOW AREAS.

Fourteen areas of low pressure were charted during the month; five first appeared on the North Pacific Coast, four in the Northwest Provinces, one in the Western States, two in the Southwest States and two on the Atlantic Coast. The centres of the larger number of the areas passed to the northward of the Lower Lake Region and as a rule they diminished greatly in their easterly advance. The track of the important area which passed into British Columbia over the northern end of Vancouver Island on the 22nd was remarkable. The area travelled slowly northward into the Yukon Territory, its centre passing almost directly over Dawson City. It was while this disturbance was passing up the Pacific Coast that the great cold wave, with temperatures as low as 66 degrees below zero, prevailed in the Yukon Territory. It was also during the presence of this disturbance that the ss. Valencia was wrecked on the west coast of Vancouver Island attended by an appalling loss of life.

WINDS.

In British Columbia on Vancouver Island and over the Mainland the direction was largely variable favouring somewhat the south and east quadrants. There were six days with strong and thirteen with fresh breezes and two gales.

In Alberta and Saskatchewan the south and west directions were most in evidence with eight days with strong and sixteen with fresh breezes and two gales.

In Manitoba the south and west directions for the most part prevailed with twelve days with strong and eleven with fresh breezes and three gales.

In the Lake Region the south and west directions predominated with ten days of strong and six of fresh breezes as well as seven gales.

In the Ottawa and Upper St. Lawrence Valleys the direction was mainly southerly to westerly with nine days of strong and nine of fresh breezes and five gales.

In the Lower St. Lawrence Valley and the Gulf the westerly direction was the most general with thirteen days with strong and nine with fresh breezes and three gales.

In the Maritime Provinces the westerly direction was also paramount with thirteen days with strong and nine with fresh breezes and two general gales occuring on the 4th and between the 16th and 17th. In the Maritime Provinces at those points where navigation is pursued in the winter season, the gales were successfully warned.

TEMPERATURE.

Temperatures below the average are reported from the Yukon Territory and the extreme northern districts of British Columbia, but in all other portions of Canada the normal was exceeded, and in many localities to a very marked extent. In the Northwest Provinces the departure ranged from 4 to 12°, in Ontario from 7° to 11°, in Quebec from 7° to 9°, and in the Maritime Provinces from 3° to 9°.

The Highest and Lowest temperatures in each Province during January, 1906, were :

British Columbia,	60° ·0 on 23rd at Ladner,	—27° ·0 on 25th at Big Creek.
Alberta,	58° ·8 on 4th at Waitfield.	—48° ·0 on 22nd at Victoria.
Saskatchewan	45° ·0 on 4th at Swift Current.	—41° ·7 on 23rd at Prince Albert.
Manitoba,	46° ·0 on 26th at Minnedosa	— 38° ·0 on 22nd at Hillview.
Ontario,	69° ·0 on 21st at Stony Creek.	—38° ·0 on 24th at White River.
Quebec,	62° ·0 on 23rd at Brome,	—36° ·4 on 20th at Chicoutimi.
New Brunswick,	56° ·0 on 23rd at Moncton,	—12° ·0 on 3rd at Chatham.
Nova Scotia,	57° ·0 on 24th at Port Hastings,	—14° ·8 on 11th at Truro.
Prince Edward Island.	48° ·0 on 25th at Hamilton.	—30° ·0 on 9th at Summerside.

PRECIPITATION.

Precipitation was deficient in most parts of Canada, except in Northern, and locally in Southern, parts of British Columbia, the Eastern portion of Saskatchewan, in Manitoba, and in a few scattered localities in Ontario.

DEPTH OF SNOW.

The depth of snow on the ground at the end of the month varied very much with the district. In the Cariboo District of British Columbia 18 inches are reported. In the Northwest Provinces the ground was practically bare in Southwest districts, while there was a covering of from three to nine inches elsewhere. In New Ontario the depth varied from 1 to 14 inches, while over the remainder of the Province there was practically no snow. A depth of from 13 to 21 inches existed in Quebec, and about 12 inches in Northern New Brunswick ; and over the Southern portion of New Brunswick, Nova Scotia and Prince Edward Island there was no snow.

THICKNESS OF ICE.

Thickness of ice is reported as follows :—Edmonton, 3 inches ; Battleford, 24 inches ; Medicine Hat, 20 inches ; Swift Current, 26 inches ; Minnedosa, 15·5 inches ; Port Arthur, 8 inches ; White River, 12 inches ; Southampton, 4 inches ; Port Stanley, 1·5 inches ; Ottawa, 15 inches ; Bruce Mines, 19 inches ; Fredericton, 14 inches ; Chatham, N.B., 15 inches ; Yarmouth, 2·5 inches ; Sydney, 10 inches ; Charlottetown, 10 inches.

BRIGHT SUNSHINE.

In British Columbia the amount of bright sunshine recorded was from 5 % to 6 % subnormal, and over Quebec and the Maritime Provinces, it varied from average in the latter district to 8 % below in the former ; elsewhere in Canada an excess of from 2 % to 12 % was registered, except locally in Southern Saskatchewan where there was a slight deficiency. The mean proportion for the month ranged between 14 % at Victoria and Agassiz, B.C., and 46 % at Battleford, Sask.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JANUARY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms	No. of fogs.
BRITISH COLUMBIA				in.	in.	in.	in.	°	°		°		°		°	°	%																								
Victoria	48	21	123	19	85	29·98	30·55	29·12	1·43	41·6	+ 2·2	14	53·1	25	26·2	20	7·1			9	19	218	110	109	105	31	35	51	55	0	774	7·6	14·2	4 W	2·56	2·41	0·35	20	6	0	0	3
Barkerville	53	2	121	35	4180	29·86	30·44	29·24	1·20	19·6	+ 1·1	17	42·0	23	20·0	20	11·6			6	2	0	0	0	0	7	2	0	1	52	62		10·0	24 S	3·40	+ 0·66	0·31	16	15	0	0	0
Agassiz	49	14	121	31	52					40·0	+ 6·6	16	56·0	31	26·0	20	15·4			3	0	33	0	0	0	36	0	24	0	0	93				6·35	- 0·61	1·00	18	13	0	0	0
Port Simpson	54	34	130	26	26	29·72	30·30	29·13	1·11	33·0	+ 1·1	20	59·5	29	8·0	21	9·7			8	18	10	1	20	3	17	1	5	4	1	62		18·8	9 S	9·96	- 0·01	1·38	23	8	0	0	1
Revelstoke	51	0	118	6	1176					25·7	- 5	12	0	28	7·0	7	19·7																1·90	—	0·85	23	8	0	0	0
Kamloops	50	41	120	20	1193	29·96	30·51	29·28	1·26	28·0	+ 1·9	12	53·7	25	1·0	21	12·1			7	13	0	0	6	9	0	2	1	0	11	62		11·0	8 SE	0·72	- 0·18	0·32	5	25	0	0	0
Princeton	49	29	120	29	1650					21·1	+ 2·2	11	47·0	23	8·0	20	19·0																0·71		0·11	9	22	0	0	6
Pilot Bay	49	39	116	55	2000																																					
Rivers Inlet	51	39	127	19	20	29·88	30·42	29·11	1·31	31·7	+ 0·5	12	47·2	1	17·0	30	7·1		95	8	15	0	8	12	25	0	4	2	0	42	93	11	VI	15 E	18·15	5·27	2·12	27	1	0	0	1
Stuart's Lake	54	28	124	12	1800																																					
Coldstream	50	11	119	15	1246					25·8	+ 2·1	12	43·0	23	5·0	19	11·1																0·95	0·01	0·15	5	26	0	0	0
a Nanaimo	19	10	123	57																																				
Chilliwack	49	10	121	57	21																																			
Winter Harbor	50	32	128	3						37·9	+ 2·9	10	51·0	21	26·0	19	7·6					2	4	2	8	1	6	3	5	0	31				19·51		2·40	25	6	0	0	0
Midway	49	0	118	46	1800																																					
Nicola Lake	50	9	120	39	2120					27·9	+ 1·6	11	55·0	30	1·0	21	16·8																0·80	- 0·17	0·20	7	24	0	0	0
West Kootenay	49	20	117	50																																				0
Garry Point	49	21	123	17						38·9	+ 1·9	10	51·0	23	26·0	20	9·0					1	11	26	13	12	1	5	7	11	93	9·6	23·3	1 SW	5·70	+ 0·65	1·03	21	10	0	0	0
Tobacco Plains	49	1	115	5	2681					22·6	+ 2·9	10	49·0	31	1·0	19	12·0																1·90	+ 0·70	0·40	8	20	0	0	0
Vancouver	49	17	123	5	136																																					
New Westminster	49	13	122	54	330	30·01	30·53	29·23	1·30	38·4	+ 2·7	12	50·4	23	21·8	20	7·4			8	19	0	7	30	6	3	3	2	1	10	62		8·8	1 S W	9·09	+ 1·39	1·61	22	9	0	0	0
Ladner	49	5	123	4						38·4	- 7	60·0	23	21·0	9	7·7																	6·85		1·25	17	14	0	0	0
North Nicomen	49	12	122	2	59					38·2	+ 2·6	14	53·0	31	27·0	20	8·1																9·33	+ 0·75	1·51	20	21	0	1	0
Quesnelle	52	59	122	30	1700					15·6	- 2·3	11	51·0	25	23·0	20	16·1																2·35	+ 1·03	0·70	12	18	0	0	2
Clayoquot	49	11	125	4	10					41·3	- 8	55·0	27	24·5	20	10·9																	21·11		1·62	27	4	0	0	2
Cranbrook	49	30	115	50	2890																																					
Massett	53	58	132	9	30					37·8	- 9	53·0	4	10·0	15	15·3						3	20	2	27	0	8	2	0	0	62				8·05		2·00	18	13	0	0	0
Bullion	52	15	121	55	2775					18·3	- 9	48·0	25	- 23·0	20	18·8																	1·78		0·30	8	23	0	0	0
Bella Coola	52	40	126	54	150																																					
Cowichan	48	25	123	42	170					38·0	- 3	52·3	30	21·1	20	7·9																	6·11	—	0·78	21	7	0	0	6
Nelson	49	29	117	21						31·8	- 1	43·0	24	6·0	19	9·9																	3·88	—	0·80	15	16	0	0	0
Okanagan Mission	49	52	119	29	1200					28·8	- 6	48·0	24	1·2	21	13·2																	0·79	—	0·25	9	21	0	0	0
Alberni	49	15	124	49	200					35·6	- 9	54·1	25	20·9	20	10·3																	13·58		2·17	22	9	0	0	0
Kuper Island	48	54	123	38	40																																					
Cape Scott	50	48	128	27						30·4	- 9	53·8	26	35·0	20	7·5																	15·30		1·93	27	4	0	0	0
Glacier	51	11	117	29	4072					19·0	- 7	36·0	25	2·0	10	10·2																	9·03		1·70	22	9	0	0	0
Golden	51	16	116	55	2350					15·1	- 2	47·0	25	- 11·0	7	25·0																										
Spence's Bridge	50	25	121	30	760																																					
Bamfield	48	50	125	9		29·91	30·47	29·21	1·26	39·9	- 3	51·7	28	19·6	9	19·5						2	9	0	28	2	0	3	0	14	93				10·91	—	2·30	21	10	0	1	4
Big Creek	51	40	123	0						14·6	- 3	49·0	24	27·0	25	26·1																	0·43		0·20	4	24	0	0	0
Nickel Plate	49	30	120	0	5100					24·1	- 3	45·0	31	2·0	20	13·3																	1·08		0·35	10	21	0	0	0
Thetis Island	49	0	123	40						39·8	- 2	52·0	23	25·0	10	8·7																	4·79	—	0·61	23	7	0	0	1
Hedley										26·4	- 3	46·0	24	6·0	20	15·1																	0·51		0·30	8	23	0	0	6
Kitamaat	53	59	128	12																																				
Rossland	49	5	117	18	3400					25·9	- 3	41·0	25	8·8	7	7·0																	3·28	—	0·63	18	13	0	0	4
*Port Essington	54	9	129	55	10																																			
Atlin						29·90	30·74	28·98	1·76	2·2	- 1	38·0	27	- 50·0	22	11·7			5	3		12	7	1	5	8	12	0	2	15	62		6·6	1 S W	1·37		0·40	11	20	0	0	0
Athalmur										22·2	- 1	49·0	27	- 12·0	19	16·0																	0·15		0·20	3	28	0	0	0
YUKON :—																																								
Dawson	64	1	139	20	1100																																				
White Horse	60	45	135	0	2075					15·8	- 1	49·0	3	69·0	21	21·9																	0·55		0·20	6	25	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA JANUARY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from average.	Years observation	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with 0·01 or more.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA—*Con.*	° ′	° ′		in.	in.	in.	in.	°	°		°		°		°	°	%																						
Pipestone	49 34	100 58																																				
Portage la Prairie	49 57	98 1	830					6·9	+9·7	16 39·0		28	−34·0	23	21·3																		0·10	0·30	0·20	6	25	0	0	0
Pierson	49 11	101 15																															1·12	0·50	0·30	14	17	1	0	0
*aSt. Albans (Awenee)	49 42	99 33		29·72	29·31	28·25	1·06	7·0	−8·9	22 40·0		28	−33·0	22	31·0					2	5	1	6	8	2	15	14	5	58	11	N	5 W	2·05	+1·65	0·80	7	22	0	0	0
Stony Mountain	50 1	97 14	803	28·97	29·59	28·35	1·24	3·2	+7·3	25 40·0		28	−35·0	23	24·0																		1·22	0·50	0·30	14	17	1	0	0
Treherne	49 39	98 40	1212					6·5	+3·4	11 35·0		25	−36·0	23	14·8																								
Virden	49 51	100 55																																		2	0	2
Winnipeg	49 53	97 7	760	30·02	30·65	29·16	1·49	6·8	+11·9	32 38·5		27	−35·5	23	20·3			4	5	6	0	4	4	18	3	1	16	10	62		31·3	20 S	1·33	+0·51	0·60	10	20	0	0	0
ONTARIO																																						
Haileybury	47 29	79 39	687	30·04	30·91	29·06	1·85	13·1	+7·4	11 47·9		22	−23·4	19	13·1			7	12	7	0	0	7	19	1	7	16	5	62	11	31	29 SE	3·43	−1·40	0·67	16	10	0	1	0
Savanne	48 55	90 18	1506					7·1	+7·6	20 37·0		26	−35·0	24	24·0					1	6	2	10	9	12	5	26	31	93	11	VI	5 NW	0·50	0·89	0·30	2	29	0	0	0
Cottam	42 7	82 15	606					34·2	+8·7	10 64·0		21	12·0	9	—					18	2	7	13	9	23	7	14	0	93				1·22	1·11	0·32	8	23	0	0	1
Brantford	43 10	80 21	750					29·5	+9·2	24 63·0		21	6·0	8	14·6																		1·54	0·18	0·72	6	25	0	0	0
Parry Sound	45 19	80 0	635	30·02	30·87	29·03	1·84	23·4	+9·2	29 51·0		22	−21·0	8	17·4			7	13	13	71	64	191	88	139	73	65	7	744	10·6	17·51	16 SW	5·14	−1·18	1·25	12	14	0	0	0
Owen Sound	44 31	80 55	597					29·8	+10·1	26 60·0		22	3·0	8	12·1					2	0	4	10	33	15	5	23	1	93				2·56	2·08	0·46	16	15	0	0	0
Beatrice	45 8	79 20	806					22·3	+7·3	30 53·0		22	−19·0	8	18·3			7	13	1	0	0	19	10	9	2	18	31	93	1	III	3 SE	5·22	+0·39	1·05	11	17	0	0	0
Coldwater	44 38	79 40	660																																			
Gravenhurst	44 54	79 20	770					23·1	+8·1	35 51·0		23	−15·0	19	18·4			6	6	7	0	8	19	18	10	13	7	11	93	III	V	3 SE	2·85	−0·39	0·61	15	17	1	0	1
Haliburton	45 1	78 28						19·1	+5·7	18 57·0		21	22·0	8	20·2																								
Point Clark	44 5	81 44	595					30·7	+7·9	32 58·0		21	10·0	8	—			4	0	23	0	6	7	32	5	12	8	0	93	V	N	6 W	1·87	−1·48	0·70	5	26	0	0	0
Birnam	43 2	81 55	600					30·2	+9·5	24 61·3		21	8·7	9	10·2					1	1	5	1	15	13	8	12	0	62				3·63	−0·05	0·55	12	18	0	0	2
London	42 59	81 13	808	30·06	30·81	29·15	1·66	29·9	+8·4	22 60·0		21	5·7	9	13·2		87	7	10	0	1	6	22	6	25	21	12	0	93	1	III	16 W	3·63	0·13	0·78	15	15	0	0	0
Port Stanley	42 40	81 13	592	30·08	30·80	29·23	1·57	30·0	+7·3	31 53·0		24	9·0	8	11·7			2	4	2	2	14	1	12	14	13	0	62		11·3	4 SW	2·44	−0·66	0·58	11	16	0	0	3
Woodstock	43 8	80 47	980	30·06	30·84	29·16	1·68	30·0	+5·6	31 60·0		22	5·0	8	14·0		88	6	9	2	9	8	31	9	71	25	19	6	0	15·4	40·0	16 SW	2·82	−0·65	0·65	10	21	0	0	0
Port Dover	42 47	80 13	635					30·4	+7·7	30 54·1		22	7·2	9	10·2					2	2	3	2	0	9	7	6	0	31				2·10	1·16	·31	11	20	3	0	0
Pelee Island	41 50	82 38	585																																			
Paris	43 12	80 25	840					36·4	+11·2	17 63·0		21	5·0	8	25·1																		2·43	−0·40	0·60	8	23	0	0	1
Bancroft	45 1	77 50						21·0	+9·4	16 3·0		22	−21·0	7	21·1																								
Rutherglen	46 15	78 48						16·6	+9·6	11 54·0		22	−18·5	8	20·9																								
Agincourt	43 47	79 16						27·8	+8·8	10 53·0		22	1·5	8	15·3																								
Hamilton	43 16	79 51	103																																			
Port Hope	43 56	78 20						27·9	+8·3	10 57·0		22	−4·0	8	16·0																		1·68	−1·89	0·75	8	21	0	0	0
Kimmount	44 15	78 38																																				
Cockburn Island	45 57	83 18	610					23·6	—	9 47·0		21	−1·0	25	16·1					8	3	6	7	15	4	9	6	4	62				0·90	—	0·40	4	24	0	0	6
Chatham	42 23	82 12	595					32·6	+8·5	20 63·0		21	12·0	9	9·2																		1·55	−1·31	0·40	4	27	0	0	0
Meaford	44 37	80 37						28·6	—	7 62·0		23	−1·0	19	15·4					2	1	4	4	6	29	16	8	1	62				2·83		0·40	15	16	0	0	0
Listowel	43 44	80 58						25·4	+6·4	10 55·0		20	−1·0	7	5·3																		1·62	−1·94	0·40	5	26	0	0	0
Bruce Mines	46 18	83 55	595					22·1	—	8 44·0		27	−9·0	18	14·9																		3·00	—	0·91	11	20	0	1	0
Kenora	49 48	94 32	1102					9·6	—	7 44·2		27	28·4	23	14·9																		1·40		0·80	4·2	2	0	3	
Sturgeon Falls	46 16	79 54																																				
Uplands	45 18	79 25						18·0	+7·1	19 58·0		23	−19·3	8	27·9					5	0	7	0	25	4	24	0	0	62				4·50	+0·59	0·60	16	15	0	1	0
Toronto	43 40	79 24	350	30·06	30·84	29·19	1·65	3·0	+8·8	65 56·5		22	5·2	8	12·2	28·0	82	7	10	77	16	95	37	47	173	110	103	24	744	12·1	50·3	6 SW	1·75	−1·13	0·51	15	10	0	0	0
Welland	42 59	79 17	425					30·8	+9·8	18 64·0		22	0·0	9	14·1																		1·68	−2·50	0·78	13	18	0	1	0
Peterborough	44 17	78 19	722					21·2	+7·5	28 54·0		22	−11·0	9	17·3																		3·65	−1·03	0·60	10	21	0	0	0
Lindsay	44 20	78 45	872	30·03	30·81	29·18	1·63	25·3	+9·9	25 55·4		22	−8·0	9	16·2			7	15	7	0	9	8	8	18	8	16	19	93	11	V	3 E	3·40	−·72	0·70	17	13	0	0	3
Deseronto	44 11	77 4	261																																			
Lakefield	44 25	78 15						25·6	+10·7	20 50·0		23	−7·0	8	17·4																		3·23	−0·57	0·50	12	19	0	0	0
Kingston	44 13	76 29	285	30·06	30·90	29·19	1·71	26·4	+8·8	31 52·8		22	−4·5	10	15·2			7	10	8	10	1	5	2	16	15	4	4	62		27·9	16 SW	2·08	−1·18	0·46	15	14	0	0	0
Clontarf	45 23	77 9																																				
Ottawa	45 26	75 42	294	30·06	30·89	29·13	1·76	2·8	+1·4	22 52·0		23	−0·0	10	16·9			7	7	3	6	17	3	1	11	10	9	2	62		111	6S W	1·25	−1·89	0·30	10	15	0	0	2
Rockliffe	45 9	75 6	557	3·05	30·98	30·08	1·90	13·6	+7·1	28 43·0		23	−24·0	1	22·8			7	11	0	0	8	0	0	0	7	3	44	62				1·23	−0·97	0·30	11	14	0	0	3
*Sarnia	42 59	82 24	586					29·2	+6·2	12 60·0		21	7·0	8	—					1	0	8	1	16	20	8	10	26	93				2·48	+0·61	1·50	5	26	0	0	0

Ontario *Concluded.*

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JANUARY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA																																									
Halifax	44 39	63 36	97	30·09	30·71	29·20	1·51	28·0	+ 4·7	31	48·0	5	− 0·7	11	16·1	.....	.....	6	7	150	221	17	12	14	143	80	103	4	744	10·7	26·0	4 S W	4·65	−1·05	0·90	15	12	0	0	5
Sydney	46 10	60 10	35	30·09	30·61	29·23	1·38	27·6	+ 6·2	32	49·5	24	8·0	12	11·0	.....	.....	8	20	13	36	25	13	42	170	33	283	129	744	5·2	13·0	19 N W	4·45	−0·74	0·64	13	18	0	0	0
a Truro	45 22	63 18	70	29·99	30·65	29·18	1·47	25·1	+ 5·8	32	51·0	24	−11·8	11	18·8	.....	.....	6	5	4	14	0	3	13	18	6	20	15	93	.....	.....	.....	1·35	−0·82	1·00	15	16	0	0	5
Yarmouth	43 50	66 2	65	30·10	30·73	29·19	1·54	30·4	+ 3·8	25	50·0	24	10·3	10	14·2	.....	.....	7	11	91	62	57	92	113	70	91	161	7	744	11·8	20·4	5 W	3·41	1·90	0·75	19	11	0	0	7
a Pictou	45 42	62 41	.....	.....	.....	.....	.....	25·4	+ 5·6	28	56·0	23	− 6·8	11	21·5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3·56	−1·16	1·20	10	16	0	0	2
Port Hastings	45 39	61 22	45	.....	.....	.....	.....	27·7	+ 5·9	14	57·0	24	5·	10	10·7	.....	.....	.....	.....	6	2	2	7	3	2	5	4	0	31	.....	.....	.....	3·35	−0·79	0·85	9	22	0	0	1
*Whitehead	45 15	61 8	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Sable Island, E. Point	43 58	59 46	25	.....	.....	.....	.....	33·6	+ 2·3	22	45·0	28	19·5	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3·12	−0·73	0·91	10	21	0	0	6
Sable Island, M. Station	43 57	60 6	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81	84	38	19	128	83	95	177	9	744	21·0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parrsboro'	45 23	64 19	40	.....	.....	.....	.....	24·1	—	9	53·5	23	4·0	10	17·2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1·92	.....	0·45	9	22	0	0	0
Wolfville	45 7	64 20	28	.....	.....	.....	.....	27·6	—	8	55·0	24	2·0	11	16·5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3·02	.....	0·60	9	21	0	0	0
Bridgetown	44 49	65 16	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windsor	44 59	64 6	90	.....	.....	.....	.....	26·7	.....	4	52·5	24	− 5·5	11	13·7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2·84	—	0·50	13	18	0	0	0
P. E. ISLAND																																									
Charlottetown	46 14	63 10	38	30·07	30·74	29·05	1·69	23·9	+ 6·7	30	45·0	23	1·0	4	14·8	.....	.....	7	10	59	34	0	26	70	229	57	264	5	744	10·3	16·2	17 S W	2·20	−1·58	0·50	10	20	0	0	0
Hamilton	46 25	63 18	.....	.....	.....	.....	.....	22·2	—	8	48·0	25	0·0	10	13·0	.....	.....	.....	.....	0	2	2	0	3	7	15	2	0	31	.....	.....	.....	3·23	.....	1·80	7	24	0	0	0
Summerside	46 18	63 1	.....	.....	.....	.....	.....	22·5	.....	7	47·0	23	− 3·0	9	14·8	.....	.....	.....	.....	0	2	0	5	3	6	2	12	0	30	.....	.....	.....	1·89	.....	0·49	8	23	0	0	0
NEWFOUNDLAND																																									
St. John's	47 31	52 42	125	29·93	30·46	29·00	1·46	26·8	+ 8·4	34	47·0	29	6·0	26	14·7	.....	.....	6	8	13	8	0	8	13	10	1	9	0	62	.....	18·7	5 N W	4·07	0·76	1·17	7	23	0	0	0
Channell	47 37	59 9	50	.....	.....	.....	.....	26·0	+ 5·5	20	40·0	21	8·0	25	11·3	.....	.....	9	16	3	2	8	18	8	2	36	16	0	93	III	VI	29 N W	2·60	−1·40	1·50	4	27	0	0	2
Cape Norman	51 38	55 52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Amour Point	51 28	56 51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Point Rich	50 42	57 25	.....	.....	.....	.....	.....	18·3	+ 9·4	21	40·0	21	5·0	25	—	.....	.....	.....	.....	26	5	28	1	1	11	14	4	0	9	.....	.....	.....	1·72	−0·97	0·90	5	26	0	0	1
BERMUDA																																									
Prospect	32 17	64 30	151	30·18	30·13	29·84	0·59	64·4	+ 2·2	14	71·1	5	54·0	8	8·6	.....	.....	6	0	6	12	1	1	3	13	1	8	11	62	.....	15·0	5 S W	6·70	+1·23	2·48	18	11	0	0	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JANUARY, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, .01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
British Columbia—										
Coquitlam	11·41	15	15	3·77	21-22	1·5	2	3·5	20	
Goldstream Lake	5·58	2	3	1·31	4	37·5	7	9·0	17	
Hartley Bay	28·54	16	5	5·30	4	49·5	12	12·0	23	
Nanaimo	5·17	13	16	1·35	15	11·0	4	7·0	11	
Naas Harbour	12·30	10	19	2·40	2	71·0	9	18·0	23	
Royal Oak	3·74	11	13	1·06	21	8·3	4	3·0	10	
Sonas River	9·73	13	13	1·61	24	15·5	5	6·0	12	
Sooke Lake	7·88	11	10	1.58	22	26·3	8	6·5	12	
Alberta—										
Beaver Hills, W	0·00	0	21	0·00	0	5·4	10	1·0	22	
Bruederheim	0·02	1	26	0·02	30	3·0	4	1·0	14	
Coutts	0·00	0	30	0·00		2·0	1	2·0	16	
Innisfail	0·00	0	26	0·00		2·9	5	1·1	19	
Insinger	0·00	0	27	0·00		8·5	1	1·0	14	
Jumping Pound	0·00	0	28	0·00		1·4	3	1·4	18	
Lacombe	0·00	0	25	0·00		4·2	4	1·5	22	
Stirling	0·00	0	29	0·00		6·0	2	1·0	6	
Saskatchewan—										
Duck Lake	0·00	0	26	0·00		9·0	5	5·0	14	
Dirt Hills	0·00	0	29	0·00		7·0	2	5·0	17	
Regina	0·00	0	23	0·00		12·2	8	4·0	17	
Manitoba—										
Belmont	0·00	0	27	0·00		0·0	4			
Cartwright	0·00	0	26	0·00		15·0	5	6·0	20	
Gretna	R	0	24	R	13	9·5	6	4·5	20	
Norquay	0·00	0	25	0·00		11·3	6	8·0	21	
Rapid City	0·00	0	11	0·00		25·5	20	4·9	11	
Ontario—										
Deer Park	0·99	4	24	0·49	3	5·7	4	5·7	18	
Fitzroy Harbour	0·25	1	24	0·25	25	11·5	6	3·0	18	
Kioshkogin Lake	0·98	5	8	0·61	23	17·4	18	3·5	18	
Arnprior	0·99	3	22	0·52	16	16·3	6	4·0	3	
Gower Point	0·63	3	23	0·17	23	11·0	5	7·0	18	
Lake Talon	1·75	4	18	0·50	21	11·4	8	3·0	17	
Pinisi Bay	1·75	4	18	0·50	21	11·4	8	3·0	17	
Turtle Dam	1·18	4	23	0·82	22	9·4	4	4·0	17	
Nasbonsing Lake	1·50	4	23	0·83	22	8·5	4	4.5	7	
MacCue	0·30	2	24	0·15	24	7·5	5	2·5	9	
Wiarton	2·08	6	17	0·54	22	17·7	8	3·5	17	
Menard's Bridge	1·49	4	23	0·82	22	8·5	4	4·5	7	
White Fish Pond	1·46	4	23	0·81	22	9·5	4	4·0	17	
Sydenham	2·20	4	25	0·80	16	3·5	2	3·0	18	
Lansdowne	1·66	4	25	0·61	4	4·0	2	3·0	1	
Ennismore	0·75	2	26	0·50	21	10·0	4	3·0	1	
Westminster	1·62	4	21	0·61	22	16·0	6	4·0	4	
Watford	1·38	4		0·60	15					
Dutton	1·15	3	23	0·35	8	6·5	5	2·0	15	
Parma	2·21	6	20	0·75	16	8·0	5	3·0	18	
Wyoming	1·20	3	24	0·55	16	8·0	4	4·0	17	
Princeton	1·68	3	20	1.05	23	19·0	8	12·0	18	
Ursa	2·33	7	21	0·90	22	15·0	4	5·0	6	
Aurora	1·05	5	20	0·41	23	9·1	6	4·0	17	
Westport	1·04	4	20	0·53	20	7·5	7	2·0	6	
Midland	0·01	0	22	0·00		17·5	9	6·0	17	
Huntsville	1·91	3	18	1·35	22	14·5	10	3·5	6	
Orangeville	1·71	5	17	0·52	21	12·4	9	6·1	18	
Emsdale	2·22	7	13	0·88	23	18·7	11	6·0	7	
Montague	1·27	5	24	0·51	23	4·0	2	3·0	17	
Croydon	1·80	4	25	0·55	4	7·0	3	3·0	18	
Wooler	1·53	6	24	0·60	14	2·0	1	2·0	17	
Arden	2·02	8	21	0·16	4	9·0	6	3·0	18	
Goderich	2·10	4	23	0·70	15	12·0	4	6·0	17	
Georgetown	1·18	9	11	0·45	2	8·6	8	5·2	18	
Smiths Falls	0·90	4	23	0·65	21	7·0	4	3·0	19	22nd distant thunder.
Quebec—										
Bryson	1·65	5	19	1·00	23	15·5	8	1·0	18	
New Brunswick—										
Point Escuminac	0·38	6	22	0·13	21	8·1	4	3·1	1	

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF JANUARY, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria				0·00	0·06	0·19	0·20	0·24	0·21	0·13	0·16	0·04	0·00			
Nanaimo				0·00	0·04	0·16	0·23	0·21	0·24	0·23	0·15	0·05	0·00			
Agassiz				0·00	S	0·17	0·22	0·27	0·18	0·22	0·15	0·05	0·00			
Battleford				0·02	0·14	0·63	0·62	0·57	0·52	0·53	0·45	0·06	0·00			
Indian Head				0·00	0·05	0·30	0·41	0·49	0·47	0·38	0·29	0·11	0·00			
Brandon				0·00	0·17	0·33	0·47	0·61	0·60	0·56	0·58	0·42	0·06			
Winnipeg				0·01	0·20	0·34	0·42	0·37	0·48	0·46	0·22	0·03	0·00			
Woodstock				0·04	0·29	0·32	0·29	0·30	0·31	0·30	0·31	0·28	0·08			
Toronto				0·00	0·22	0·40	0·39	0·38	0·37	0·35	0·29	0·32	0·12			
Lindsay				S	0·15	0·35	0·35	0·42	0·36	0·38	0·31	0·20	S			
Barrie				0·03	0·18	0·31	0·41	0·43	0·38	0·32	0·23	0·15	0·00			
Gravenhurst				0·01	0·36	0·44	0·45	0·42	0·40	0·35	0·33	0·31	0·17			
Kingston				0·06	0·29	0·38	0·47	0·45	0·45	0·43	0·46	0·37	0·07			
Ottawa				0·06	0·24	0·33	0·36	0·39	0·39	0·41	0·37	0·25	0·02			
Montreal				S	0·01	0·18	0·32	0·32	0·37	0·29	0·29	0·15	0·00			
Quebec				0·02	0·22	0·33	0·35	0·34	0·39	0·34	0·34	0·29	0·05			
Fredericton				0·03	0·22	0·37	0·43	0·49	0·53	0·51	0·55	0·47	0·10			

	Victoria.	Nanaimo.	Agassiz.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Gravenhurst.	Kingston.	Ottawa.	Montreal.	Quebec.	Fredericton.
Mean proportion for month. (*Constant sunshine being 1.*)	0·14	0·15	0·14	0·46	0·29	0·44	0·34	0·27	0·29	0·28	0·26	0·35	0·37	0·32	0·25	0·30	0·10
Difference from average	−0·06	—	0·05	+0·10	−0·01	+0·04	−0·09	+0·06	+0·03	+0·02	+0·07	—	+0·12	+0·02	−0·08	—	0·00
Maximum daily amount	0·76	0·79	0·70	0·86	0·74	0·98	0·98	0·88	0·90	0·96	0·80	0·98	1·00	0·91	0·86	0·91	0·95
Date	9	9	27	29	29	30	30	10	9	25	25	9	26	25	24	29	25
No. of days completely clouded	16	19	18	3	14	6	13	14	7	14	9	13	8	11	14	11	9

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

2. Haileybury, III : Minnedosa, II.
3. Minnedosa, IV.
7. Minnedosa, IV.
15. Waitefield, IV.
18. Chaplin, IV ; Aweme, II.
19. Minnedosa, II.
20. Fort Vermillion.
21. Waitefield, IV ; Fort Vermillion.
22 Waitefield, IV ; Fort Vermillion, III.
24. Aweme, IV.
25. Victoria, II ; Aweme, IV ; Treherne ; Knee Hill.
26. Battleford, II ; Kenora, IV ; Gray Hill, IV ; Victoria, III ; Hillsdown, IV ; Waitefield, IV; Fort Vermillion, IV ; Threehills Creek, IV ; Hillview, II ; Aweme, IV ; Morden, IV ; Minnedosa, IV ; Treherne, Cox's Reef, IV ; Knee Hill.
27. Gravenhurst, IV : Kenora, IV ; Gray Hill, IV ; Victoria, II ; Hillsdown, IV : Waitefield, IV ; Alameda, IV ; Hillview, II ; Aweme, IV ; Morden, IV ; Georgetown, IV.
29. Moose Jaw.
31. Battleford, II ; Chaplin, III ; Georgetown, IV.

FORECASTS FOR JANUARY, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1269. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	84	72	8	4	90·5
Saskatchewan	83	72	9	2	92·2
Manitoba	83	68	13	2	89·8
Lake Superior	101	71	20	7	83·2
Lower Lake Region	111	98	12	1	91·2
Georgian Bay	111	93	17	4	89·0
Ottawa Valley	103	86	14	3	90·3
Upper St. Lawrence	103	89	11	3	91·7
Lower St. Lawrence	108	89	16	3	89·8
Gulf	113	89	17	7	86·3
Maritime Provinces, West	131	106	15	10	86·6
Maritime Provinces, East	132	109	14	9	87·9
Total	1269	1015	196	58	88·9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
27th February, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

LIBRARY UNIVERSITY OF TORONTO

Monthly Weather Review.

VOL. XXX. FEBRUARY, 1906. No. 2

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was exceedingly fine, mild and dry and there was very little precipitation until the 14th. On or about this date a somewhat wet period set in and lasted at most places until about the 26th. From the 6th to 14th, low temperatures generally prevailed and zero or below was recorded at several stations on the upper mainland. After the latter date 40° was frequently exceeded, and on or about the 17th between 50° and 60° was noted at some stations. Mild conditions also occurred during the first three or four days of the month. At many places on the lower mainland and islands, several plants were in full bloom, and shrubs were coming into leaf on the 30th.

In the North-West Provinces the weather like that in British Columbia was comparatively mild, this being more especially the case in Alberta, where at Calgary there was a positive departure in the mean temperature of 11·4, and of 14·8 at Medicine Hat. During the first three days 50° was also exceeded at most places in this province, and from the 15th to 28th, high temperatures were general. The precipitation which at some places was completely absent was generally quite light, the falls where recorded occurring on or about the 1st, 2nd, 7th, 10th, 21st and 25th. In most localities there was much bright sunshine, but at Battleford the precipitation was below the average. In Alberta the ground was bare on the 28th, but elsewhere there was a light covering of snow.

The weather in Manitoba was comparatively mild, more especially from the 16th to 23rd, when the temperature frequently rose well above the freezing point at most stations. From the 3rd to 16th temperatures much below zero were general and from —30° to —37 was recorded on or about the 10th. Precipitation where recorded occurred on or about the 1st, 2nd, 3rd, 18th and 26th. At some stations, however, it was completely absent and the aggregate amount at any station was quite small. During the month there were many bright days, but the proportion of bright sunshine was below the average. Strong winds occurred on or about the 3rd and 18th; but with these exceptions, they were mostly moderate. On the 28th the ground was only lightly covered with snow.

In Ontario the weather was exceedingly fine, the proportion of bright sunshine being much above the average. This frequent warm sunshine, however, had little effect apparently upon the shade temperature, the mean of which was average or slightly below in a number of districts. Temperatures below zero were recorded frequently on or about the 2nd and 3rd and from 5th to 17th, the weather becoming much milder after the latter date and until nearly the close of the month. The precipitation which was recorded at most places on or about the 1st, 4th, 8th, 15th, 19th, 24th and 27th, was quite light in the aggregate. During the 23rd and 24th, when the temperature at many places exceeded 50°, many spring-like conditions were noticeable, ploughing being possible on high lands, the sap rising in the trees, and many insects appearing.

In the Province of Quebec the weather though comparatively mild during the day was generally quite cold at night from the 2nd to 18th, the temperature frequently falling well below zero. From the 19th to 26th quite mild conditions prevailed and the mean temperature for the month exceeded the average. Precipitation was recorded generally on or about the 2nd, 4th, 5th, 9th, 10th, 14th, 15th, 22nd and 28th, the total fall being below the average. The proportion of bright sunshine exceeded the average and there were many fine days. On the 28th the depth of snow on the ground was much below the average, it being only 18 inches in the vicinity of the City of Quebec.

In New Brunswick high mean temperatures were general though minimum readings were in most districts somewhat lower than for the preceding month. There were several bright and almost spring-like days but much cloudiness prevailed with frequent though not heavy falls of snow and rain. South-west gales occurred on the 1st and 4th, and a heavy north-east and north-west gale accompanied by a blinding snowstorm was general on the 28th. The depth of snow on the 28th was unusually light, and in some districts the ground was almost bare.

The weather in Nova Scotia was milder than usual, and high temperatures were general on the 1st and 2nd and from the 9th to 28th, 50° being exceeded at several stations on or about the 22nd. The precipitation though comparatively light in the aggregate was of somewhat frequent occurence and there was much dull weather throughout the month. Heavy gales occurred on the 22nd and 28th accompanied by snow. Harbours were clear of ice throughout the month and on the 28th there was little snow on the ground.

The weather conditions in Prince Edward Island were similar to those in New Brunswick, comparatively high temperatures prevailing more especially during the first two days, also on or about the 5th, 6th, 10th, 13th to 15th and 19th to 28th. The precipitation which was mostly rain occurred on or about the 1st, 6th, 9th, 16th, 22nd and 27th, the total fall being excessive at Charrlottetown. The ground was almost bare until the 28th when there was a fall of snow accompanied by high winds.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for February exceeded the normal value throughout Canada, except along the British Columbian Coast where negative departures of 0·10 of an inch occurred and also locally in Northaestern Saskatchewan where the recorded value just reached the average. Positive departures of 0·20 of an inch occurred in portions of Ontario and Quebec, and also over the greater part of New Brunswick and Nova Scotia.

HIGH AREAS.

During February ten areas of high barometric pressure were charted, the majority moving from the far North-West Territories, south-eastward and eastward to the Atlantic seaboard. Very pronounced systems accompanied by extreme cold were traced during the first half of the month, but in the latter portion, the areas were not so important, and the accompanying cold, was, as a rule, less severe.

LOW AREAS.

Fifteen cyclonic formations can be traced, many of them being very energetic, and gales were of frequent occurrence along their paths. Most of them were first observed on the Northern Pacific Coast, or over the Southwest States and Gulf of Mexico. The North-West areas, with one exception followed an easterly course to the Gulf of St. Lawrence, while the others moved north-eastward towards the same region. The exception to the first type was observed over the northern portion of Vancouver Island on the 24th, and moved south-eastward reaching Alabama by the 26th; thence it passed north-eastward up the Coast and over Newfoundland, developing great energy as it approached the Maritime Provinces, where on the evening of the 28th a barometer reading reduced to sea level of 28·74 inches was recorded at Sydney, B.C. and very heavy gales prevailed.

WINDS.

In British Columbia, on Vancouver Island and over the Mainland, the direction was for the most part variable but favouring slightly to the easterly. There were three days with strong and fifteen with fresh breezes and three gales.

In Alberta and Saskatchewan the direction was variable, the northerly, however, being the least in evidence. There were eleven days with strong and ten with fresh breezes and two gales.

In Manitoba the south and west directions were the most general with eleven days with strong and ten with fresh breezes and three gales.

In the Lake Region the north and west directions predominated with six days with strong and fourteen with fresh breezes and four gales.

In the Ottawa and Upper St. Lawrence Valleys no one direction was very prevalent, the north-west and south-west being perhaps the most often experienced. There were eleven days with strong and ten with fresh breezes and three gales.

In the Lower St. Lawrence Valley and the Gulf the direction was chiefly variable, favouring slightly the westerly. There were ten days with strong and seven with fresh breezes and five gales.

In the Maritime Provinces the direction was variable with nine days with strong and eight with fresh breezes and seven gales. The gales occurred on the 2nd, 4th, 9th, 14th, 15th, 22nd and 28th. The heaviest gale was on the 28th, the majority of the other storms being both moderate and more or less local.

TEMPERATURE.

The temperature was above the average in all portions of the Dominion except over the Peninsula of Ontario where it was either just average or very slightly below. The positive departures were strikingly marked in British Columbia and the North-West Provinces, especially in the southern portions of Alberta and Saskatchewan where they were from 11 to 15 degrees. In the Maritime Provinces, also the positive departures were pronounced in several localities, Chatham, N.B. recording 6° and Charlottetown and St. John each 7° above average.

The Highest and Lowest temperatures in each Province during February, 1906, were :

British Columbia,	71° ·0 on 10th at Agassiz,	—26° ·4 on 13th at Stuart Lake.
Alberta,	76° ·0 on 2nd at Pekisko.	—28° ·5 on 13th at Wetaskiwin.
Saskatchewan	49° ·0 on 2nd at Swift Current.	—45° ·7 on 14th at Manor.
Manitoba,	44° ·0 on 19th at Morden	—40° ·0 on 10th at Carberry.
Ontario,	65° ·0 on 24th at Paris.	—47° ·0 on 14th at Savanne.
Quebec,	51 ·0 on 24th at Brome,	—37° ·4 on 9th at Chicoutimi.
New Brunswick,	49° ·5 on 21st at Moncton.	—21° ·0 on 17th at Sussex.
Nova Scotia,	52° ·5 on 21st at Wolfville.	—12° ·2 on 17th at Truro.
Prince Edward Island.	44° ·0 on 1st at Charlottetown.	— 9° ·5 on 17th at Charlottetown.

PRECIPITATION.

Precipitation was deficient throughout Canada except in the vicinity of Prince Albert, Saskatchewan, and in the Maritime Provinces, where an excess of the average occurred. Departures from the normal value, both positive and negative were, in most districts, pronounced.

DEPTH OF SNOW ON THE GROUND.

There was a marked absence of snowfalls during the month and no heavy snowstorms. There was no snow on the ground at the end of the month in many portions of British Columbia, North-West Provinces and Southern Ontario, and in other sections there was no great depth ; Cariboo recorded 22 inches on the ground, north Saskatchewan 9 to 12 inches, the northern portion of Ontario 6 inches to an extreme of 18 inches ; Quebec a few inches in the west portion to 19 inches in the eastern portion; New Brunswick 12 inches locally, and elsewhere in the Maritime Provinces, from 5 to 9 inches.

THICKNESS OF ICE.

North-West Provinces—Battleford, 26 inches ; Medicine Hat, 11 inches ; Swift Current, 19 inches ; Minnedosa, 12 inches ; Edmonton, 30 inches. Ontario—Port Arthur, 5 inches ; White River, 20 inches ; Southampton, 10 inches ; Port Stanley, 12 inches ; Kingston, 13 inches ; Ottawa, 16 inches ; Paris, 12 inches ; Bruce Mines, 22 inches ; Gravenhurst, 15 inches. Maritime Provinces—Chatham, 13 inches, Yarmouth, 4 inches; Sydney, 10 inches ; Charlottetown, 8 inches ; Low Point, 10 inches.

BRIGHT SUNSHINE.

The amount of Bright Sunshine recorded during February was subnormal over Western Manitoba and Saskatchewan and also over the Maritime Province, elsewhere in Canada an excess of the average was recorded. The extremes of departure from normal value were —13% at Battleford, Sask. and +17% at Victoria, B.C.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE.				TEMPERATURE.								Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM									VELOCITY OF WIND.			PRECIPITATION.			Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Mean miles per hour.	Highest day's velocity.	Date and direction from.	Amount.	Difference from average.	Heaviest fall in month.				
				in.	in.	in.	in.																															
BRITISH COLUMBIA																																				
Victoria	48	21	123	19	85	29·93	30·31	29·42	0·92	44·0	+ 3·9	14	55·2	17	31·0	12	10·9			6	6	198	160	107	87	42	31	26	18	0	672	8·4	19·2	26 S.E.	1·66	−2·05	0·52	14	11	0	1	0
Barkerville	53	2	121	35	4180	29·97	30·11	29·16	0·98	24·5	+ 5·5	18	41·0	1	− 2·0	13	17·4			5	5	0	0	0	0	10	0	0	0	16	56		7·0	16 S.	0·60	−2·18	0·30	3	21	0	0	0
Agassiz	49	11	121	31	52					45·2	+ 8·3	15	71·0	10	29·0	9	23·5			4	1	30	0	6	0	27	0	21	0	0	84				1·68	−1·01	0·83	14	14	0	0	0
Port Simpson	54	31	130	26	26	29·81	30·31	29·12	1·19	38·3	+ 3·1	20	48·0	17	26·3	12	10·2			6	7	9	1	23	1	6	0	7	0	9	56		8·8	11 N.E.	1·93	7·32	0·51	10	17	0	0	0
Revelstoke	51	0	118	6	1476					29·3		5	44·0	28	4·0	11	12·1																3·71	—	0·51	11	17	0	0	0
Kamloops	50	41	120	29	1193	30·00	30·54	29·36	1·18	34·4	+ 8·0	13	52·5	19	14·1	13	10·6			7	13	0	1	3	2	2	0	1	3	41	56		9·0	19 S.	0·25	−0·66	0·15	3	6	0	0	0
Princeton	49	29	120	29	1630					29·2	+ 4·9	11	48·0	23	− 6	13	19·1																0·85	−0·09	0·17	6	0	1	0	0
Pilot Bay	49	39	116	55	2000																																	
Rivers Inlet	51	39	127	19	20	29·86	30·30	29·29	1·01	40·7	+ 5·4	13	50·0	3	30·0	22	10·2		88	5	4	0	13	18	17	0	1	3	0	32	84	II	IV	5 E.	3·56	−9·09	0·45	16	12	0	0	2
Stuart's Lake	54	28	124	12	1800					14·0	+ 3·6	11	43·0	17	26·4	13	26·1																0·42	−0·15	0·20	3	25	1	0	2
Coldstream	50	14	119	15	1246					31·1	+ 2·3	13	48·0	19	13·0	13	10·1																1·25	+0·10	0·50	6	22	0	0	0
a Nanaimo	49	10	123	57		29·86	30·22	29·31	0·91	39·4	—		7·53	8	18	21·7	3	13·1	37·6	92	7	1	1	4	2	21	9	2	8	2	26	84	14·1	19·3	27 S.	1·62	—	1·00	13	15	0	1	8
Chilliwack	49	10	131	57	21	29·95	30·33	29·18	0·85	42·5	—		9·59	1	3	29·0	8	14·1	34·9	74	6	7	7	27	25	4	4	6	1	7	84				1·95	—	1·27	11	11	0	0	0
Winter Harbor	50	32	128	3						40·0	+ 2·0	10	49·0	17	30·0	6	9·4					0	3	1	6	3	5	1	6	0	28				8·32	−2·14	1·50	13	15	0	0	1
Nicola Lake	50	9	120	39	2120					31·1	+ 7·6	11	48·0	17	11·	14	14·2																0·35	−0·50	0·25	2	26	0	0	0
West Kootenay	49	20	117	50																																		
Garry Point	49	21	123	17						39·6	+ 1·3	11	52·0	17	26·0	11	11·1					1	1	15	5	17	0	5	13	21	81	7·1	21·3	26 S.E.	3·43	−2·17	0·77	14	14	0	0	9
Tobacco Plains	49	1	115	5	2681					29·2	+ 2·7	11	50·1	2	4·0	13	11·7																1·29	+0·10	0·56	9	2	0	0	1
a Vancouver	49	17	123	5	136	29·96	30·36	29·46	0·90	39·8	—		7·3·6	18	24·9	13	12·0			6	11	1	0	15	8	8	1	1	5	11	56	III	VII	18 S.E.	6·03	—	1·2	15	13	0	1	7
New Westminster	49	13	122	54	330	29·94	30·34	29·52	0·82	40·8	+ 2·3	13	54·0	18	26·0	1	13·			6	9	1	2	19	3	0	8	1	1	4	18	56		10·4	19 S.W.	5·04	−1·21	1·19	15	13	0	0	1
Ladner	49	5	123	4						40·0		5	59·0	2	24·0	13	11·2																1·90		1·25	8	20	0	0	0
North Nicomen	49	12	122	2	59					42·7	+ 4·9	11	62·0	3	28·0	3	15·1																6·56	−2·37	1·40	14	14	0	1	0
Quesnelle	52	59	122	30	1700					25·2	+ 5·3	10	48·0	24	5·0	13	23·0																0·15	1·18	0·15	1	25	0	0	9
Clayoquot	49	11	125	4	40					43·4	—	8	58·0	10	31·0	28	11·0																6·42		1·00	13	15	0	0	0
Cranbrook	49	30	115	50	2900																																	
Massett	53	58	132	9	30					40·8	—	9	50·0	2	24·0	7	15·7					12	8	20	11	0	0	2	0	0	56				0·80	—	0·40	3	25	0	0	0
Bullion	52	45	121	55	2775					25·6	—	9	46·0	1	1·0	13	17·2																0·42		0·12	1	27	2	0	0
Bella Coola	52	40	126	54	150																																	
Cowichan	48	25	123	42	170					40·6		3	53·4	15	24·1	13	14·0																					
Nelson	49	29	117	21	760					33·3	—	5	47·0	28	15·0	8	12·8																1·63	—	1·01	13	15	0	0	3
Okanagan Mission	49	52	119	29	1200					34·6	—	6	53·0	20	17·9	11	12·2																2·60	—	0·66	13	15	0	0	0
Alberni	49	15	124	49	200					42·2	+ 5·0	10	62·1	9	24·9	6	19·8																0·98	—	0·23	9	11	0	0	0
Kuper Island	48	54	123	38	40																												7·04	−2·14	1·05	11	11	0	1	0
Cape Scott	50	48	128	27						40·7		9	49·8	16	29·8	10	9·6																					
Glacier	51	44	117	29	4072					21·3		10	36·0	19	− 2·0	15	13·3																8·35	—	2·37	18	10	0	0	0
Golden	51	16	116	55	2550					26·0	—	4	13·0	22	— 9·0	13	18·1																1·35		1·2	14	14	0	0	0
Spence's Bridge	50	25	121	30	760					39·4	+ 11·7	13	55·0	25	17·5	13	15·8																					
Bamfield	48	50	125	9		29·91	30·20	29·42	0·78	42·1		3	53·8	12	30·9	10	12·8			5	8	0	0	3	17	6	2	6	7	13	81				0·38	−0·28	0·11	4	2	0	0	0
Big Creek	51	40	123	0						25·5	—	3	49·0	17	−12·0	13	25·3																1·93		2·43	12	16	0	0	5
Nickel Plate	49	30	120	0	5100					27·0	—	3	52·0	1	6·0	13	15·6																0·20	—	0·10	3	23	1	0	0
Thetis Island	49	0	123	40						40·1	—	3	53·4	18	26·2	12	12·0																1·26	—	0·40	8	20	0	0	0
Hedley										31·9	—	3	51·0	20	9·0	13	15·5																1·09	—	0·87	18	10	0	0	9
Kitamaat	53	59	128	42						35·2	—	3	47·0	3	19·0	12	13·5					22	0	0	1	1	1	0	0	3	28				0·66	—	0·28	6	24	0	0	8
Rossland	49	5	117	48	3100					28·4	—	3	37·0	19	12·0	6	9·2																3·05	—	1·03	8	20	0	0	0
Port Essington	54	9	129	55	10																												6·44	—	1·10	13	15	0	0	7
Atlin						30·09	30·66	29·29	1·37	0·7	—	1	26·5	18	−27·0	13	15·8			5	2	2	1	0	0	0	0	0	0	50	56	2·7	2 NE.		0·72	—	0·40	6	20	2	0	1
Athalmur										25·0	—	1	15·0	18	— 3·0	11	19·1																0·25		0·26	2	26	0	0	1
YUKON:																																				
Dawson	64	4	139	24	1100																																	
White Horse	60	45	135	0	2075					0·0	—	2	30·0	19	−32·5	22	22·2																0·75	—	0·15	3	25	0	0	0

| | | |

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA—*Con.*	° ′	° ′		in.	in.	in.	in.	°	°				°																												
Pipestone	49 34	100 58						2·8	+2·0	17	43·0	20	−29·0	13	24·1																	0·38	−0·33	0·15	4	21	0	0	0
Portage la Prairie	49 57	98 1	830					2·8	+2·0	17	43·0	20	−29·0	13	24·1																	0·38	−0·33	0·15	4	21	0	0	0
Pierson	49 11	101 15																																						
*a*St. Albans (Aweme)	49 42	99 33		28·90	29·55	28·19	1·36	3·4	+3·7	21	43·5	19	−34·0	14	26·5																	0·12	−0·51	0·04	6	22	8	0	0
Stony Mountain	50 4	97 14	803	30·25	30·95	28·95	1·00	−3·6	−2·2	25	38·0	20	−36·0	10	27·2			3	0	3	0	3	7	13	5	3	16	1	51	11	IV	15 SE	0·03	−0·84	0·03	1	27	0	0	0
Treherne	49 36	98 40	1212					1·3	+1·9	11	40·0	19	−37·0	19	21·5																	0·00	—	0·00	0	28	0	0	0
Virden	49 51	100 55																																						
Winnipeg	49 53	97 7	760	30·22	30·93	29·39	1·54	1·8	+2·8	33	38·4	19	−32·5	13	21·8			3	1	7	0	1	7	17	5	8	10	1	56		31·7	20 W	0·21	0·72	0·05	4	23	1	0	0
ONTARIO																																								
Haileybury	47 29	79 39	687	30·25	30·87	29·55	1·32	8·0	−1·0	11	45·9	23	−35·4	6	26·3				5	8	8	1	0	2	20	3	2	15	5	II	IV	1 N W	2·38	+0·49	0·80	9	16	8	0	0
Savanne	48 55	90 18	1506					−1·2	−1·6	20	43·0	18	−47·0	14	29·3					0	3	2	2	0	9	7	19	42	84				*	−1·23	*	0	23	9	0	0
*Cottam	42 7	82 45	606					25·0	−1·4	18	56·0	24	− 6·0	5	—					40	1	2	11	14	10	3	0	0	81				1·20	−1·60	0·25	4	21	0	0	0
Brantford	43 10	80 21	750					19·6	−0·9	24	60·0	24	−12·0	5	21·0																	0·13	−1·34	0·25	2	26	0	0	1
Parry Sound	45 19	80 0	635	30·22	30·79	29·59	1·20	14·3	−0·3	30	46·0	23	−31·0	6	24·0			6	7	117	33	46	132	55	101	58	122	8	672	9·2	16·6	1 W	2·20	−0·74	0·48	9	15	0	0	3
Owen Sound	44 34	80 55	597					20·2	+1·0	26	51·0	23	−22·0	7	15·5					8	4	1	8	33	5	4	20	1	84				2·91	−2·93	0·90	12	16	0	0	0
Beatrice	45 8	79 20	806					13·8	+0·2	30	50·0	24	−33·0	6	21·4			5	7	5	0	0	9	13	6	5	18	28	84	I	III	1 NW	2·06	−3·01	0·54	10	18	0	0	2
Coldwater	44 38	79 40	600																																					
Gravenhurst	44 54	79 20	770					14·7	−0·4	35	52·0	24	−32·0	6	25·4			5	4	12	4	0	21	18	3	6	8	12	84	II	V	1 NW	2·29	1·17	0·50	12	16	0	0	0
Haliburton	45 1	78 28						14·2	+1·0	19	54·0	24	−36·0	6	27·4																							0	0	0
*Point Clark	44 5	81 44	595					22·6	+1·5	34	51·0	24	−10·0	7	—			4	0	23	3	6	7	31	0	13	1	0	84	III	X	2 N	1·01	−1·65	0·40	3	25	0	0	0
Birnam	43 2	81 55	600					20·6	+0·5	20	59·7	23	−12·0	6	15·3					5	8	1	3	14	12	0	13	0	56				2·18	−0·93	0·45	10	15	0	1	0
London	42 59	81 13	808	30·24	30·86	29·64	1·22	21·2	+0·3	22	57·0	24	−16·5	6	20·5		87	5	4	3	4	2	12	5	28	5	25	0	84	I	III	3 S W	2·10	−1·05	0·66	10	15	0	1	1
Port Stanley	42 40	81 13	592	30·26	30·78	29·72	1·06	22·1	−0·3	32	51·0	25	−12·5	6	18·4			5	8	11	7	5	7	4	5	5	12	0	56		18·7	1 NW	1·04	−2·11	0·22	11	15	0	2	2
Woodstock	43 8	80 47	980	30·24	30·88	29·66	1·22	20·6	−1·8	32	58·5	24	−15·0	6	19·7			4	0	8	10	9	20	5	48	25	37	6	168	12·2	23·5	4 W	1·20	−1·06	0·40	10	18	0	0	0
Port Dover	42 47	80 13	635					20·6	−1·8	30	47·5	24	− 9·0	6	14·0																	0·86	−2·54	0·19	10	18	0	1	0
Pelee Island	41 50	82 38	585					21·8		28	36·0	12	− 9·0	4	10·6																	0·30		0·30	2	26	0	0	0
Paris	43 12	80 25	840					27·2	+7·0	21	65·0	24	−20·0	6	31·0																	1·01	1·41	0·57	5	23	0	0	1
Bancroft	45 1	77 50						13·2	+0·3	15	54·0	24	−39·0	5	28·0																							0	0	0
Rutherglen	46 15	78 48						8·2	−1·2	11	48·8	23	−42·5	6	27·6																	1·68	−2·09	0·40	9	18	1	0	0
Agincourt	43 47	79 16						18·1	+2·0	10	50·0	25	− 16·0	6	20·6																	1·21	−0·93	0·38	7	21	0	0	1
Hamilton	43 16	79 54	403																																					
Port Hope	43 56	78 20						17·9	+0·6	10	51·0	21	−18·0	5	19·2																	0·77	−2·40	0·70	3	24	0	0	0
Kinmount	44 45	78 38																																						
Cockburn Island	45 57	83 18	610					14·6	—	9	50·0	21	−21·0	6	21·6					9	5	0	7	14	3	4	10	4	56				1·10	−2·66	0·30	6	22	1	0	2
Chatham	42 23	82 12	595					21·1	+1·2	20	60·0	23	− 8·0	6	14·7																	0·74	−2·06	0·30	3	25	0	0	0
Meaford	44 37	80 37						19·4	—	7	50·0	24	−20·0	7	17·7					8	2	0	1	6	29	2	8	0	56				1·93	—	0·50	11	17	0	0	1
Listowel	43 44	80 58						15·0	+0·5	11	52·0	24	−22·0	5	13·2																	1·04	−2·32	0·50	3	25	0	0	0
Bruce Mines	46 18	83 55	595					13·1	—	8	43·0	23	−39·0	5	22·6																	1·95	—	1·00	7	21	2	0	0
Kenora	49 48	94 32	1102					1·9	—	7	46·0	19	−35·0	10	21·6																	0·75	—	0·70	2	26	4	0	0
Sturgeon Falls	46 16	79 51																																						
Uplands	45 48	79 25						10·9	−1·3	20	53·0	23	−40·2	6	33·7					8	1	9	1	13	4	13	2	5	56				2·32	−0·61	0·40	11	17	0	0	0
Toronto	43 40	79 24	350	30·23	30·86	29·67	1·19	21·8	−0·5	65	53·3	24	−12·1	2	17·4	20·2	79	6	4													0·80	−1·82	0·31	11	13	0	0	1
Welland	42 59	79 17	425					23·0	+2·0	23	62·0	24	− 5·0	3	19·8																	1·04	−3·92	0·41	6	22	0	0	0
Peterborough	44 17	78 19	722					17·0	−1·1	34	57·0	24	−26·0	6	21·9																	0·80	−2·43	0·3	4	24	0	0	1
Lindsay	44 20	78 45	872	30·19	30·85	29·65	1·20	17·5	+1·3	26	59·6	24	−24·0	6	21·5			6	9	11	1	4	4	12	6	5	22	19	84	I	III	28 NW	2·07	−0·93	0·15	11	15	0	0	3
Deseronto	44 11	77 4	261																																					
Lakefield	44 25	78 15						21·4	+8·0	20	54·0	17	−22·0	2	31·5																	0·48	−1·96	0·25	3	25	0	0	0
Kingston	44 13	76 29	285	30·24	30·96	29·68	1·28	18·8	+0·4	32	54·0	24	−17·5	4	19·8			5	5	9	15	0	3	6	8	4	3	1	56		26·7	4 SW	1·11	−1·35	0·22	13	11	0	0	0
Clontarf	45 23	77 9									54·0	24																				1·51		0·60	7	20	0	0	0
Ottawa	45 26	75 42	294	30·20	30·92	29·64	1·28	15·8	+3·1	23	46·0	21	−19·0	6	20·2			5	7	2	8	8	4	3	5	9	13	4	56				2·58	−0·12	1·00	8	17	0	0	2
Rockliffe	46 9	78 6	557	30·25	30·92	29·59	1·33	8·6	−1·4	29	46·0	20	−40·0	3	29·8			1	5	0	0	2	0	0	0	9	4	11	56		III	26 NW	1·58	−0·34	0·80	7	21	0	0	2
*Sarnia	42 59	82 24	586					20·0	−0·1	11	58·0	24	−10·0	7	—					8	0	0	2	7	12	8	4	13	84				1·00	−1·09	0·40	4	24	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA—																																									
Halifax	44 39	63 36	97	30·15	30·97	29.60	1·97	28·1	+ 1·3	32	49·5	10	8·4	17	16·8	....	....	7	11	55	264	21	41	54	104	70	43	17	672	11·5	23·5	5 S W	5·22	+0·66	1·03	16	10	0	1	7
Sydney	46 10	60 10	35	30·14	30·91	28·85	2·06	27·2	+ 7·1	33	49·5	10	6·5	18	15·3	....	....	8	19	45	97	38	21	18	189	11	124	129	672	4·8	18·0	14 NE	6·95	+2·79	1·68	14	13	0	0	3
*a*Truro	45 22	63 18	....	30·07	30·90	28·85	2·05	21·8	+ 5·6	32	19·8	21	—12·2	17	20·7	....	....	8	13	9	19	9	5	11	17	1	9	13	84	....	....	....	3·63	+0·13	0·66	14	13	0	0	4
Yarmouth	43 50	66 2	65	30·16	30·98	29·08	1·90	29·0	+ 2·9	26	48·7	10	6·8	3	16·2	....	....	7	10	98	123	59	52	136	37	39	123	5	672	11·1	21·7	10 W	4·74	+0·18	1·26	14	14	0	0	3
*a*Pictou	45 42	62 41	....	29·91	30·77	28·61	2·16	21·7	+ 5·1	28	48·5	1	— 3·0	17	19·2	....	....	8	10	6	16	2	0	1	25	9	11	14	84	H	IV	28 NE	5·53	+1·87	2·00	11	15	0	0	2
Port Hastings	45 39	61 22	45	....	....	....	....	26·0	+ 6·3	15	5·0	9	4·	18	14·6	....	....	....	....	9	2	3	2	0	1	7	4	0	28	....	....	....	4·70	+0·15	1·16	10	18	0	0	1
*Whitehead	45 15	61 x	20	....	....	....	....	27·7	+ 4.5	23	38·0	13	11·0	19	—	....	....	....	....	13	12	8	10	11	13	1	13	3	84	....	....	....	4·17	+1·38	1·31	6	24	0	0	7
*Sable Island, E. Point	43 58	59 46	25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sable Island, M. Station	43 57	60 6	25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Parrsboro'	45 23	64 19	40	....	....	....	....	22·2	+ 2·0	10	48·0	21	— 6·0	16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·78	—	0·13	8	20	0	0	0
Wolfville	45 7	64 20	28	....	....	....	....	25·8	—	8	52·5	21	— 1·0	17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3·17	—	0·75	9	19	0	0	0
Bridgetown	44 49	65 16	20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Windsor	44 59	64 6	90	....	....	....	....	26·0	—	4	52·0	10	— 5·0	17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3·67	—	0·69	9	19	0	0	0
P. E. ISLAND—																																									
Charlottetown	46 14	63 10	38	30·15	30·97	28·88	2·09	23·2	+ 5·9	31	41·0	1	— 9·5	17	17·2	....	....	7	13	147	60	0	26	81	203	9	133	13	672	10·7	17·1	21 SW	3·05	+0·41	0·50	15	13	0	0	1
Hamilton	46 25	63 48	....	....	....	....	....	20·9	—	7	44·0	1	4·5	4	14·5	....	....	....	....	4	4	0	1	4	9	4	2	0	28	....	....	....	2·11	—	0·80	7	21	0	0	0
Summerside	46 18	63 51	....	....	....	....	....	19·4	—	6	42·0	21	— 5·0	2	15·1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·35	—	0·50	8	20	0	0	0
NEWFOUNDLAND—																																									
St. John's	47 34	52 42	125	30·07	30·69	29·28	1·41	26·7	+ 1·2	31	47·0	2	4·0	15	15.6	....	....	7	14	15	2	2	5	22	6	1	3	0	56	.....	19·0	14 N	6·82	+1·88	1·22	15	11	0	0	2
*Channell	47 37	59 9	50	....	....	....	....	23·7	+ 3·2	21	40·0	10	5·0	17	13·2	....	....	8	10	4	11	1	22	8	1	22	9	3	84	III	VI	28 S E	2·20	—0·76	2·00	2	22	0	0	3
*Cape Norman	51 38	55 52	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*Amour	51 28	56 51	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*Point Rich	50 42	57 25	....	....	....	....	....	13·1	— 0·1	22	38·0	1	10·0	17	—	....	....	....	....	12	14	15	1	4	13	20	5	0	84	....	....	....	1·10	+1·15	1·40	8	20	0	0	1
BERMUDA—																																									
Prospect	32 17	64 30	151	30·09	30·18	29·66	0·82	64·4	+ 2·7	15	73·0	13	54·0	29	9·0	....	....	7	4	5	8	2	4	5	3	4	7	18	56	....	25·1	23 NW	8·52	+4·02	1·94	22	5	0	4	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING FEBRUARY, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
BRITISH COLUMBIA—										
Coquitlam	7·61	11	17	1·29	18					
Goldstream Lake	5·14	15	13	1·15	26					
Hartley	7·03	11	14	1·80	18					
Naas Harbour	0·17	1	1	0·17	17					
Nanaimo	4·52	12	16	1·12	25					
Royal Oak	2·77	11	17	0·90	18					
Somas River	6·40	15	13	1·20	16					
Sooke Lake	5·66	11	17	1.17	19					
ALBERTA—										
Bruederheim			25			0·6	3	0·3	7	
Beaver Hills, W			21			1·1	7	0·5	24	
Coutts			25			6·0	3	3·0	12	
Innisfail			26			0·6	4	0·4	10	
Lacombe			25			0·6	3	0·4	26	
Stirling			28							No rain or snow.
Jumping Pound	0·11	3	22	0·09	15	1·6	5	1·6	11	
SASKATCHEWAN—										
Dirt Hills			25			2·0	3	1·0	8	
Insinger			24			2·5	4	1·0	27	
Last Mountain			27			"	1	"	3	
Regina			24			1·8	4	0·8	2	—32 on 10th.
MANITOBA—										
Belmont	0·04	1	26	0·04	20	"	1	"	2	
Cartwright			27			"	1	"	1	
Gretna	R		26	R	19	"	1	"	1	
Norquay			25			0·5	3	0·5	9	
Rapid City			16			1·0	4	0·5	2	
ONTARIO—										
White Fish	0·91	4	20	0·71	20	9·5	4	1·5	1	
Menard's Bridge	0·86	4	20	0·67	20	8·8	4	1·0	1	
Nasbonsing Lake	0·83	4	20	0·65	20	8·8	4	1·0	1	
Turtle Dam	0·91	4	20	0·71	20	9·5	4	1·5	1	
Penice Bay	0·64	3	21	0·52	21	5·3	1	1·0	1	
Lake Talon	0·64	3	21	0·52	21	5·2	1	1·0	1	
Kioshkoqui Lake	0·34	3	14	0·26	21	15·8	10	1·2	25	
Arden	0·78	7	18	0·21	20	10·0	5	3·0	5	
Lansdowne	0·17	1	23	0·17	20	5·0	4	2·0	5	
Watford	0·77	3		0·35	25					
Orangeville	0·97	2	19	0·56	21	4·5	7	1·6	5	
Parma	0·10	2	22	0·31	26	5·0	4	2·0	1	
MacCue	2·15	2	23	2·00	25	5·0	3	2·0	4	
Croydon			21			8·0	4	3·0	14	
Deer Park	0·57	3	20	0·39	14	3·3	5	1·0	4	
Ennismore			26			2·0	2	2·0	2	
Westminster	0·36	2	22	0·36	20	8·0	4	5·0	1	
Dutton	0·15	2	23	0·10	21	6·0	3	3·0	1	
Princeton	0·93	4	20	0·75	20	7·5	4	4·0	1	
Emsdale	0·19	3	19	0·28	26	11·5	8	3·0	13	
Westport	0·66	2	20	0·51	25	2·6	6	1·0	14	
Ursa	1·05	4	20	0.41	20	10·0	4	1·0	13	
Huntsville	0·23	1	19	0·23	22	15·5	6	6·0	14	
Montague	0·16	2	24	0·30	20	3·5	2	3·0	14	
Midland			20			15·0	8	4·0	14	
Goderich	1·00	3	18	0·50	13	13·5	7	4·0	3	
Aurora	0·35	3	20	0·13	13	7·8	6	2·8	3	
Georgetown	0·42	4	15	0·24	13	6·6	11	2·8	3	
Wyoming	0·30	1	25	0·30	25	6·0	2	4·0	28	
Wooler	0·21	2	24	0·11	25	2·5	2	1·5	11	
Sydenham	0·75	2	22	0·40	20	8·0	4	3·0	3	
Wiarton	0·65	2	21	0·33	24	11·5	5	3·5	11	
QUEBEC—										
Bryson	1·00	3	20	0·80	24	8·5	5	3·0	14	
NEW BRUNSWICK—										
Point Escuminac	0·23	3	20	0·16	2	19·7	5	7·1	5	

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF FEBRUARY, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria				0·20	0·40	0·50	0·45	0·50	0·60	0·61	0·49	0·37	0·06			
Nanaimo				0·01	0·15	0·27	0·31	0·34	0·40	0·40	0·39	0·29	0·05			
Agassiz				0·00	0·28	0·41	0·48	0·58	0·59	0·52	0·47	0·33	0·00			
Battleford				0·01	0·31	0·41	0·49	0·52	0·49	0·41	0·44	0·33	0·02			
Indian Head				0·01	0·25	0·33	0·43	0·49	0·51	0·57	0·52	0·33	0·10			
Brandon				0·05	0·36	0·48	0·60	0·58	0·60	0·63	0·55	0·45	0·25			
Winnipeg				0·12	0·36	0·55	0·63	0·71	0·71	0·65	0·62	0·55	0·38			
Woodstock				0·16	0·42	0·52	0·60	0·60	0·65	0·61	0·58	0·39	0·21			
Toronto				0·01	0·29	0·48	0·65	0·67	0·64	0·60	0·57	0·55	0·42	0·08		
Lindsay				0·07	0·28	0·43	0·57	0·64	0·64	0·60	0·58	0·57	0·43	0·20		
Barrie				0·13	0·33	0·52	0·63	0·66	0·61	0·53	0·45	0·33	0·09			
Gravenhurst				0·16	0·49	0·58	0·62	0·66	0·64	0·65	0·59	0·61	0·57	0·16		
Kingston				0·30	0·48	0·56	0·53	0·61	0·60	0·60	0·57	0·50	0·22			
Ottawa				0·20	0·43	0·47	0·55	0·63	0·63	0·58	0·59	0·54	0·13			
Montreal				0·06	0·23	0·41	0·49	0·59	0·59	0·58	0·46	0·29	0·07			
Quebec				0·17	0·28	0·38	0·48	0·45	0·47	0·54	0·58	0·54	0·27	0·01		
Fredericton				0·17	0·28	0·33	0·40	0·42	0·46	0·50	0·52	0·50	0·36	0·02		

	Victoria.	Nanaimo.	Agassiz.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Gravenhurst.	Kingston.	Ottawa.	Montreal.	Quebec.	Fredericton.
Mean proportion for month. (*Constant sunshine being 1.*)	0·41	0·26	0·36	0·35	0·35	0·45	0·53	0·46	0·47	0·48	0·41	0·55	0·48	0·45	0·43	0·40	0·38
Difference from average	+0·17	–	+0·11	−0·13	0·00	−0·02	+0·04	+0·16	+0·11	+0·13	+0·13	—	+0·12	+0·11	+0·01	—	0·05
Maximum daily amount	0·91	0·76	0·80	0·78	0·82	0·88	0·92	0·91	0·90	0·96	0·86	1·00	0·94	0·88	0·90	0·92	0·95
Date	4	10	12	17	17	24	27	27	16	28	27	6	27	22	22	27	23
No. of days completely clouded	3	8	8	8	9	3	3	8	1	3	3	3	9	7	7	8	12

Thunder recorded on :

9. Sussex.
10. Bermuda.
13. Bermuda, Port Dover.
15. Halifax.
16. Bermuda.
17. Nanaimo.
18. Alberni, Victoria.
20. Renfrew, Port Stanley.
24. London. Strathroy, Westminster, Dutton, Birnam, Meaford, Lucknow.
25. Port Stanley, Clinton.
26. Vancouver.
27. Bermuda.

Aurora recorded :

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

1. Minnedosa, IV ; Savanne, III
2. Waitefield, IV.
3. Fort Vermilion, IV.
5. Atlin, IV ; Gray Hill, IV ; Threehills Creek, III ; Haileybury, III ; Fort Vermilion, IV.
6. Minnedosa, IV ; Cartwright, II ; Bullion.
7. Savanne, I.
9. Fort Vermilion, IV.
11. Gray Hill, IV.
12. Qu'Appelle, IV.

14 Prince Albert, III ; Rapid City, Waitefield, IV. ; Chaplin, Savanne, I ; Kenora, IV. Hillsview, IV ; Aweme, II ; Haileybury, IV.

15. Prince Albert, I ; Georgetown, IV ; Waitefield, IV ; Cape Magdalen, Chicoutimi, III ; Calvin, Savanne, I ; Kenora, IV ; Hillview, IV ; Morden, IV ; Aweme, IV ; Grenfell, Threehills Creek, IV ; Haileybury, II ; Fort Vermilion, IV.

16. Prince Albert, II ; Georgetown, IV ; Waitefield, IV ; Morden, IV ; Aweme, I.

17. Waitefield, IV ; Chicoutimi, IV ; Morden, IV ; Aweme, III ; Grenfell, Alameda; Insinger, III.

18. Prince Albert, I; Cartwright, Rapid City, Waitefield, IV; Chaplin, Gray Hill, III; Hillview, II ; Grenfell, Big Creek, IV ; Hillsdown, IV ; Knee Hill, Threehills Creek, III ; Insinger, IV.

19. Qu'Appelle, III ; Minnedosa, I ; Hillview, IV.

21. Prince Albert, IV ; Minnedosa, III ; Haileybury, III.

22. Aweme, IV ; Haileybury, III ; Fort Vermilion, III.

23. Chicoutimi, IV ; Savanne, II.

24. Qu'Appelle, III ; Prince Albert, I ; Winnipeg, IV ; Battleford, II ; Medicine Hat, IV ; Savanne, II ; Kenora, II ; Hillsview, I ; Morden, II ; Aweme, I ; Alameda, Insinger, III ; Fort Vermilion, IV.

25. Minnedosa, III ; Atlin, IV ; Banff, IV ; Port Arthur, I ; Battleford, II ; Waitefield, III ; Gray Hill, I ; Cockburn Island, Bruce Mines, III ; Savanne, I ; Kenora, II ; Carberry ; Morden, II ; Aweme, I ; Bullion, Hillsdown, IV ; Knee Hill, Threehills Creek, II ; Insinger, III ; Stuart Lake, Fort Vermilion, III.

26. Minnedosa, III ; Banff, IV ; Savanne, II ; Aweme, IV ; Hillsdown, IV ; Haileybury, IV.

27. Quebec, III ; Waitefield, IV ; Bruce Mines, IV ; Savanne, I ; N. Nicomen ; Haileybury, III; Fort Vermilion, III

28. Qu'Appelle, IV ; Montreal, IV ; Huntsville, II ; Georgetown, IV ; Gray Hill, III ; Madoc, II ; Hillsdown, Insinger, III ; Haileybury, III.

FORECASTS FOR FEBRUARY, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1086. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	72	62	8	2	91·7
Saskatchewan	72	54	11	7	82·6
Manitoba	72	57	7	8	84·0
Lake Superior	88	70	15	3	88·1
Lower Lake Region	101	87	11	3	91·6
Georgian Bay	101	83	12	6	88·1
Ottawa Valley	89	75	11	3	90·4
Upper St. Lawrence	90	75	13	2	90·5
Lower St. Lawrence	98	85	10	3	91·8
Gulf	97	82	10	5	89·7
Maritime Provinces, West	103	81	15	7	85·9
Maritime Provinces, East	103	80	15	8	84·9
Total	1086	891	138	57	88·4

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th March, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXX. MARCH, 1906. No. 3.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was unusually fine, mild and dry throughout the greater portion of the month. Rain or snow occurred at most places on or about the 2nd to 6th, 10th, 17th, and frequently between the 22nd and 25th, and last three days of the month. Cold northerly winds prevailed after the 10th lasting a week or ten days when the temperature at night was quite low, zero and below being frequently recorded on the upper mainland. From the 20th to 31st the weather over the lower mainland was comparatively warm, temperatures above 60° occurring frequently when vegetation made rapid progress and many plants were in bloom.

In the North-West Provinces the weather was generally fine, mild and dry. Somewhat low temperatures prevailed during the first three or four days, a sharp rise occurring on the 5th and continuing for several days when 60° was exceeded at many places. From the 10th to 15th it was again quite cold but after the latter date it was comparatively mild. On or about the 31st 70° or over was noted in Alberta. Precipitation was recorded at many places on or about the 2nd, 7th, 10th, 16th, 21st and 26th, but at some stations it was completely absent. During the last few days of the month signs of spring were noticeable everywhere and in Alberta vegetation made considerable progress.

The weather conditions in Manitoba were quite similar to conditions in the North-West Provinces, it being mostly fine, mild and dry. From the 1st to 9th, although temperatures below zero were occasionally recorded at night, the weather was comparatively mild. After the latter date and up to the 23rd temperatures well below zero were recorded almost every night. From the 24th to 31st the weather was quite mild, and on the last two or three days of the month 50° was exceeded at many places. Precipitation occurred on or about the 2nd, 3rd, 9th, 18th and 26th, but falls were mostly light and in the aggregate it was less than the average. Much bright sunshine was recorded and late in the month the ice on the rivers was breaking up and there were many other signs of spring.

In Ontario the weather was comparatively mild during the day from the 3rd to 14th, 19th to 22nd and 26th to 31st, but the nights were generally cold and the mean temperature was below the average. The precipitation, which was somewhat excessive, was recorded chiefly on or about the 4th, 9th, 12th, 16th, 20th, 22nd and 27th. Throughout the month there was much dull weather, and the proportion of bright sunshine was below the average. On or about the 20th one of the most severe snow storms of the season occurred in southern districts, and for several days after sleighing was possible. Spring-like conditions were backward and vegetation was somewhat retarded.

In the Province of Quebec there was much fine bright weather but precipitation in light showers was somewhat frequent, the falls occurring chiefly on or about the 3rd to 5th, 8th, 10th, 12th, 15th to 17th, 20th to 21st, 23rd and 27th to 31st. The mean temperature was below the average and quite cold weather prevailed during the first two or three days, also from the 13th to 15th and 23rd, and although it was comparatively mild by day during the intervening periods the nights were generally cold. On the 31st the depth of snow varied between a mere trace at Montreal to 30 inches at Father Point.

The weather in New Brunswick was somewhat cold, more especially during the first week, from the 13th to 15th and from the 23rd to 26th when temperatures below zero were frequently recorded at night at some places. The precipitation which was excessive occurred chiefly on or about the 3rd,

10th, 16th, 20th, 23rd and last three days of the month. Strong winds were of frequent occurrence and four gales were reported between the 10th and 22nd, a storm on the latter date being accompanied by snow which was much drifted. Bright sunshine was somewhat excessive and by the end of the month the snow had almost disappeared in southern districts.

In Nova Scotia the weather was cold and unsettled during the greater portion of the month and although comparatively mild from the 4th to 10th, 21st to 23rd and 26th to 31st, low temperatures at night generally prevailed. Precipitation occurred on or about the 1st, 5th, 10th, 16th, 20th, 23rd, 28th and 31st. High winds were frequent and gales were often recorded. In most districts there was sufficient snow for sleighing but in the southern portion of the province the ground was almost bare on the 31st.

The weather in Prince Edward Island was somewhat colder than usual, nevertheless comparatively mild weather prevailed on the 5th, also from the 8th to 11th, 21st to 23rd and 27th to 31st. The precipitation which was excessive was recorded at most places on or about the 1st, 4th, 9th, 16th, 21st, 23rd, 28th and 31st. Strong winds and gales were unusually frequent and on the 16th there was a heavy fall of snow which was much drifted. The ice in the harbours though quickly melting showed no sign of breaking up.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for March reached or exceeded the average throughout Canada. The greatest departure from normal, + 0·22 of an inch occurred at Medicine Hat, Alberta.

HIGH AREAS.

Eight areas of high barometric pressure were tracked during March, the larger number exhibiting more of the characteristics of the winter type than those of the preceding months.

The majority were first observed over the far North-West and assumed a southeasterly and easterly course across the Great Lakes to the Maritime Provinces. Very low temperatures were experienced in all portions of Canada during the presence of the more energetic of the anti-cyclonic systems.

LOW AREAS.

Ten areas of low pressure were charted during March, the place of origin, or appearance on the field of observation being evenly divided between the North-west, West and South-west, and with two exceptions the tracks followed converged towards the Gulf of St. Lawrence.

The majority of the areas were very energetic, and were almost invariably accompanied by gales. Some very low barometer readings were recorded in the Maritime Provinces, the minimum reading being 28·50 inches, reduced to sea level, on the 10th, while a very severe gale was in progress.

WINDS.

In British Columbia, on Vancouver Island and over the Mainland, the easterly direction was the most general with seven days with strong and thirteen with fresh breezes and two gales.

In Alberta and Saskatchewan the direction was variable with seven days with strong and thirteen with fresh breezes and two gales.

In Manitoba the north and west directions predominated with ten days with strong and eleven with fresh breezes and two gales.

In the Lake Region the direction was chiefly northerly to westerly with five days with strong and nine with fresh breezes and five gales.

In the Ottawa and Upper St. Lawrence Valleys the north and west directions were most in evidence with four days with strong and eleven with fresh breezes and four gales.

In the Lower St. Lawrence Valley, the Gulf of St. Lawrence and in the Maritime Provinces the direction was for the most part southerly to westerly with nine days with strong and eight with fresh breezes and seven gales.

In the Maritime Provinces the gales occurred on the 4th, between the 9th and the 11th, on the 16th, the 20th, the 22nd, the 27th and on the 31st, and at those points where winter navigation is pursued ample warning was given in every case of the approach of the gales, the accuracy of the warnings being on several occasions favourably referred to in the newspapers of the Maritime Provinces.

BRIGHT SUNSHINE.

The amount of bright sunshine recorded during March was subnormal over the greater portion of Ontario, and just the average in Quebec; elsewhere in Canada an excess was registered. Extremes of departure from average were +9 per cent at Agassiz, B.C., and Brandon, Man., to —11 per cent at Toronto, Ont.

TEMPERATURE.

The temperature exceeded the average from the Pacific Coast to the Rainy River District of Ontario, and was subnormal in all other portions of Canada. The excess amounted from 1° to 3° in British Columbia and from 3° to 5° in the North-West Provinces. A deficiency of from 1° to 6° occurred in Ontario and Quebec, and from 1° to 3° in the Maritime Provinces.

The Highest and Lowest temperatures in each Province during March, 1906, were:

British Columbia,	72° ·1 on 8th at Alberni.	—17° ·6 on 12th at Stuart Lake.
Alberta,	82° ·0 on 28th at Macleod.	—33° ·0 on 14th at Macleod.
Saskatchewan	72° ·0 on 31st at Battleford,	—29° ·5 on 13th at Prince Albert.
Manitoba,	60° ·0 on 29th at Minnedosa	—27° ·0 on 12th at Oakbank.
Ontario,	58° ·0 on 29th at Windsor,	—42° ·0 on 12th at White River.
Quebec,	49° ·0 on 27th at Brome,	—24° ·2 on 15th at Chicoutimi.
New Brunswick,	55° ·0 on 10th at Grand Manan,	—15° ·5 on 6th at Chatham.
Nova Scotia,	53° ·1 on 30th at Truro,	— 4° ·1 on 3rd at Truro.
Prince Edward Island.	48° ·0 on 31st at Hamilton.	— 3° ·0 on 6th at Charlottetown.

PRECIPITATION.

The precipitation exceeded the average over Eastern Quebec and the Maritime Provinces and also over the greater portion of Ontario and locally in Western Quebec, elsewhere it was deficient. The deficiency was pronounced in Alberta and Saskatchewan, where in some districts there was an entire absence of either rain or snow. In British Columbia large negative departures occurred over the Lower Mainland and Vancouver Island Districts.

DEPTH OF SNOW.

At the close of the month the mountains of British Columbia were nearly clear of snow, and in the North-West Provinces there was practically no snow on the ground. Portions of Northern Ontario report a depth of about 10 inches, and in Quebec the covering of snow varied from a trace at Montreal to 30 inches at Father Point. In the Maritime Provinces the ground was bare in most of the southern districts while a considerable depth was on the ground in Northern New Brunswick.

THICKNESS OF ICE.

Ice was reported at the following stations:—Battleford, 20 inches; Minnedosa, 6 inches; White River, 23 inches; Kingston, 13 inches; Ottawa, 10½ inches; Chatham, 15 inches; Charlottetown, 5½ inches.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroræ.	No. of thunder storms.	No. of fogs.
BRITISH COLUMBIA—				in.	in.	in.	in.																																		
Victoria	48	24 123 19	85	29·98	30·41	29·52	0·89	44·5	+ 2·0	15	63·0	8	29·2	15	14·5			6	11	143	238	101	73	47	46	60	26	10	744	10·4	27·5	10 N E	0·67	−2·81	0·16	9	17	0	0	2
Barkerville	53	2 121 35	4180	30·04	30·54	29·11	1·10	26·0	+ 0·8	18	52·0	30	−10·0	13	21·0					7	0	0	0	2	0	0	0	53	62	10·4	13·0	10 N	0·71	1·27	0·28	7	23	0	0	0
Agassiz	49	14 121 31	52					44·6	+ 2·9	16	69·0	27	23·0	13	23·2			2	0	51	0	0	0	36	0	3	0	0	93				2·01	3·39	0·85	10	21	0	0	0
Port Simpson	54	34 130 26	26																																						
Revelstoke	51	0 118 6	1476					32·4			8 69·0	29	3·0	14	20·1																		0·37		0·27	3	27	0	0	0
Kamloops	50	41 120 29	1193	30·01	30·54	29·42	1·12	38·8	+ 2·2	13	69·0	29	6·7	14	22·2			4	5	2	2	12	4	1	1	2	0	38	62		15·0	7 S E	0·10	0·11	0·6	2	29	0	0	0
Princeton	49	29 120 29	1650					34·0	+ 2·2	12	66·0	26	3·0	14	27·4																		0·26	0·18	0·12	1	27	0	0	0
Pilot Bay	49	39 116 55	2000																																						
Rivers Inlet	51	39 127 19	20	29·98	30·50	29·38	1·12	41·6	+ 3·1	12	57·5	26	17·9	14	15·9		71	1	6	10	6	24	8	0	5	1	0	36	93	11	VI	10 N E	5·70	2·12	2·30	11	20	0	0	0
Stuart's Lake	54	28 124 12	1800					22·6	+ 2·2	13	59·5	31	17·6	12	27·5																		0·10	0·82	0·07	2	29	2	0	0
Coldstream	50	14 119 15	1216					36·0	+ 0·7	10	62·0	27	4·0	14	19·8																		1·01	+ 0·53	0·50	1	27	0	0	0
a Nanaimo	49	10 123 57		29·95	30·31	29·13	0·88	42·1			7 61·4	8	16·8	14	16·8		79	5	5	2	10	15	21	4	1	2	9	29	93	6·9	27·7	11 E	3·00		0·76	16	14	0	0	1
Chilliwack	49	10 131 57	21	30·00	30·13	29·55	0·88	41·8			8 67·1	25	18·0	15	18·2			4	5	18	33	17	3	8	5	5	4	0	93				1·25		0·43	12	19	0	0	1
Winter Harbor	50	32 128 3						41·1	− 1·5	11	68·0	31	20·0	14	15·5					5	5	3	7	3	2	3	3	0	31				10·06	+ 1·21	3·25	13	18	0	0	0
Midway	49	0 118 46	1800																																						
Nicola Lake	50	9 120 39	2120					34·5	+ 2·8	11	65·0	27	0·0	14	26·7																		0·05	0·62	0·05	1	30	0	0	0
West Kootenay	49	20 117 50																																							
Garry Point	49	21 123 17						49·0	0·7	11	57·0	21	18·0	14	15·2																		2·03	0·93	0·65	8	23	0	0	0
Tobacco Plains	49	1 115 5	2684					31·9	+ 1·8	11	66·1	31	− 6·0	14	19·0																		0·62	−0·72	0·31	2	28	0	0	0
a Vancouver	49	17 123 5	136	30·02	30·44	29·54	0·90	42·7			2 59·0	8	15·3	14	17·7		64	5	6	1	10	28	2	0	4	7	3	7	62	4·7	13·5	11 N E	2·37		0·71	12	17	0	0	0
New Westminster	49	13 122 54	330	30·00	30·40	29·56	0·84	43·6	+ 1·9	13	62·7	7	14·0	14	17·3			5	7	1	17	21	1	1	16	2	6	4	62		18·3	11 N E	2·74	3·59	0·88	10	21	0	0	0
Ladner	49	5 123 4						40·4			5 68·0	25	15·0	15	18·3																	1·80		0·80	5	26	0	0	0
North Nicomen	49	12 122 2	59					44·8	+ 2·5	14	67·0	8	17·0	15	18·3																		1·71	1·90	0·18	8	21	0	0	0
Quesnelle	52	59 122 30	1700					33·4	+ 4·2	11	64·0	26	2·0	14	24·8																		0·30	−0·24	0·30	2	29	0	0	0
Clayoquot	49	11 125 4	40					43·9			7 63·5	21	21·0	14	15·1																	10·02		1·38	14	17	0	0	0
Cranbrook	49	30 115 50	2900																																						
Massett	53	58 132 9	30					42·3	+ 2·9	10	60·0	22	30·0	9	17·3					42	5	5	6	0	1	2	1	0	62				2·05	−0·85	1·40	5	26	0	0	0
Bullion	52	45 121 55	2775					30·2			9 57·0	30	− 7·0	14	23·2																		0·30		0·30	1	30	0	0	0
Bella Coola	52	40 126 54	450								3																														
Cowichan	48	25 123 42	170					41·3			5 60·6	7	15·5	14	16·8																		1·89		0·48	13	17	0	0	0
Nelson	49	29 117 21	1760					35·5			63·0	27	5·0	15	19·2																		0·92		0·60	1	27	0	0	0
Matsqui	49	7 122 16																																							
Okanagan Mission	49	52 119 29	1200					36·2			7 62·5	29	5·0	15	21·1																		0·47		0·25	7	24	0	0	0
Alberni	49	15 124 49	200					44·9	+ 3·2	11	72·1	8	12·9	15	22·7																		5·67	0·25	1·31	16	15	0	0	0
Kuper Island	48	51 123 38	40																																						
Cape Scott	50	48 128 27						45·8	−		8 53·6	21	20·4	14	13·0																		9·44	−	2·87	16	15	0	0	0
Glacier	51	14 117 29	1072																																					0	0
Golden	51	16 116 55	2550					29·4	−		4 63·0	31	8·0	14	27·1																									0	0
Spence's Bridge	50	25 121 30	760					41·8	+ 1·4	12	70·5	28	10·5	14	24·1																		R	−0·69	R	0·28	0	0	0	0
Bamfield	48	50 125 9		29·95	30·39	29·47	0·92	43·0			4 60·1	28	21·0	15	12·9		76	5	10	24	6	0	13	6	0	5	2	37	93				2·75		1·50	12	18	0	0	7
Big Creek	51	40 123 0						26·1			3 60·0	30	17·0	12	26·7																		0·36		0·20	3	28	1	0	0
Nickel Plate	49	30 120 0	5100					24·7			3 47·0	26	−12·0	14	17·4																		1·15		0·15	6	25	0	0	0
Thetis Island	49	0 123 40						42·1			3 61·3	7	18·8	15	15·1																		1·84		0·49	12	19	0	0	0
Hedley								35·1			3 62·0	28	0·0	13	24·8																		0·34		0·12	4	27	0	0	0
Kitamaat	53	59 128 42						39·3	−		4 62·0	25	19·0	10	20·3					16	0	0	1	4	1	1	4	4	31				1·36		1·83	8	23	0	0	0
Rossland	49	5 117 48	3400					30·3			3 56·0	31	− 1·6	14	15·1																		1·28		0·60	7	21	0	0	0
*Port Essington	54	9 129 55	10																																						
Atlin				30·14	30·94	29·17	1·77	21·3			1 12·0	25	12·5	19	22·0					3	9	3	5	10	2	0	1	29	62		8·0	27 S	*		*	0	27	0	0	0
Athalmur								26·6			1 64·0	31	−10·0	16	24·2																		0·15		0·10	2	29	0	0	0
YUKON :—																																								
a Dawson	64	4 139 20	1100	30·20	31·10	29·24	1·86	11·8			4 48·0	29	−16·0	18	21·4			3	1	13	0	2	6	14	1	0	0	26	62		7.3	2 N	0·22		0·12	3	8	2	0	0
White Horse	60	45 135 0	2075					21·7			3 46·0	21	−17·0	1	28·8																									0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA—*Con.*	° ′	° ′		in.	in.	in.	in.	°																																
Pipestone	49 34	100 58																																						
Portage la Prairie	49 57	98 1	830					15·2	−0·7	18	54·0	30	16·0	13	20·6																		0·22	−0·36	0·10	4	27	0	0	0
Pierson	49 11	101 15																																						
*aSt. Albans (Awenue)	49 42	99 33		28·94	29·29	28·45	0·84	17·4	+3·3	21	58·5	29	−14·0	11	20·8																		0·67	−0·18	0·38	8	23	5	0	0
Stony Mountain	50 4	97 14	803	30·12	30 63	29 18	1·15	12·3	−1·3	26	52·0	30	−24·0	12	20 6			4	3	6	4	1	5	7	5	12	18	2	60	11	IV	21 NW	0·80	−0·21	0·20	3	25	0	0	0
Treherne	49 36	98 40	1212					12·4	−1·0	13	55·0	29	22·0	22	18·0																						4	27	4	0	0
Virden	49 51	100 55																																						
Winnipeg	49 53	97 7	760	30·22	30·70	29 42	1·28	16·0	+3·3	33	53·4	29	−19·5	13	22·2			4	3	18	3	0	2	15	7	4	9	4	62		28·7	10 N	0·54	−0·59	0·30	5	22	0	0	0
ONTARIO—																																							
Haileybury	47 29	79 39	687	30·13	30·79	29·22	1·57	14·7	−1·8	13	42·7	25	−19·4	1	25·8			4	5	14	1	3	4	11	4	4	3	18	62	1	III	30 NW	2·83	+0·58	0·85	9	18	5	0	2
Savanne	48 55	90 18	1506					9·2	−4·2	20	47·0	29	−39·0	12	29·8					1	6	12	2	0	19	8	18	27	93				0·80	−0·13	0·60	2	26	7	0	0
*Cottam	42 7	82 45	606					27·8	−5·6	18	46·0	27	10·0	24						25	5	11	17	3	7	15	7	0	90				1·34	−1·13	0·30	9	22	0	0	0
Brantford	43 10	80 21	750					25·1	−3·3	25	48·0	26	2·0	22	13·9																		1·21	−0·99	0·56	3	28	0	0	0
Parry Sound	45 19	80 0	635	30·12	30·95	29·50	1·45	20·0	−2·9	30	46·0	30	14·0	24	19·2			5	10	131	91	29	75	32	77	178	97	31	744	8·3	17·5	3 E	3·43	+0·64	0·91	8	18	0	0	0
Owen Sound	44 34	80 55	597					24·6	−1·5	18	48·0	27	−1·0	24	15·7					9	9	9	2	22	19	8	15	0	93				3·25	+0·52	0·50	19	12	0	0	0
Beatrice	45 8	79 20	806					19·7	−1·9	31	47·0	30	−18·0	26	20·9			5	10	4	0	3	13	6	5	5	19	38	93	1	V	2 S E	3·77	+0·72	1·72	12	19	0	0	2
Coldwater	44 38	79 40	600																																					
Gravenhurst	44 54	79 20	770					20·1	−3·2	35	45·0	30	17·0	23	21·0			5	6	19	3	13	9	17	3	5	8	16	93	II	V	3 E	3·33	+0·82	0·87	12	19	2	0	0
Haliburton	45 1	78 28						20·3	−4·0	18	52·0	30	−22·0	23	25·0																								0	0	0
*Point Clark	44 5	81 44	595					25·1	−1·3	30	43·0	28	9·0	22	—			3	0	49	3	9	1	21	3	4	3	0	93	IV	X	22 N	1·30	−0·80	0·40	4	27	0	0	1
Birnam	43 2	81 55	600					23·6	−3·5	23	46·0	26	−7·7	23	11·9					13	5	5	3	3	9	11	10	3	62				2·62	+0·10	0·68	12	19	0	0	1
London	42 59	81 13	808	30·11	30·88	29·56	1·32	25·3	−1·6	22	48·0	30	−7·0	24	14·3		88	6	10	2	8	0	10	3	14	21	35	0	93	I	III	2 S E	3·13	+0·41	0·74	17	10	0	0	0
Port Stanley	42 40	81 13	592	30·12	30·87	29·50	1·37	26·4	−3·3	32	44·5	4	0·4	23	12·4			7	10	4	10	7	2	6	12	6	15	0	62				2·57	−0·35	0·46	20	8	0	0	3
Woodstock	43 8	80 47	980																																					
Port Dover	42 47	80 13	635					26·0	−3·5	31	45·1	3	−3·0	24	12·1																		3·20	+0·38	0·85	16	15	0	0	0
Pelee Island	41 50	82 38	585																																					
Paris	43 12	80 25	840					31·9	+2·1	17	70·0	29	3·0	23	25·0																		2·73	+0·51	0·78	8	23	0	0	0
Bancroft	45 1	77 50						19·7	−2·0	14	51·5	30	−16·0	22	21·6																		—	—	—	—	—	—	0	0
Rutherglen	46 15	78 48						16·0	−5·7	11	43·0	25	−21·8	24	23·9																		1·52	−0·95	0·58	6	23	3	0	0
Agincourt	43 47	79 16						23·2	−1·3	11	47·5	28	6·0	23	14·7																		1·60	−1·92	0·60	5	24	0	0	0
Hamilton	43 16	79 54	403					29·4	−0·9	31	50·0	28	10·0	12	17·7																		2·18	−1·66	1·16	4	27	0	0	0
Port Hope	43 56	78 20						25·1	—	9	45·0	27	−1·0	22	13·1																		1·53	—	1·08	2	29	0	0	0
Kinmount	44 45	78 38																																						
Cockburn Island	45 57	83 18	610					16·4	—	9	41·0	8	−12·0	22	20·6					7	7	3	5	7	3	5	19	6	62				1·30	—	0·30	8	23	0	0	0
Chatham	42 23	82 12	595					28·0	4·2	19	49·0	26	4·0	23	12·5																		1·59	−0·91	0·55	5	26	0	0	0
Meaford	44 37	80 37						22·6		8	46·0	27	2·0	24	13·6					20	2	7	5	1	12	6	9	0	62				1·51	—	0·98	1	27	0	0	0
Listowel	43 44	80 58						20·4			45·0	26	7·0	22	14·2																		1·36		0·92	3	28	0	0	0
Bruce Mines	46 18	83 55	595					18·0		8	44·0	30	19·0	23	21·0																		3·58	—	1·75	6	25	0	0	1
Kenora	49 48	94 32	1102					16·3	—	6	56·0	29	−22·0	12	21·4																		0·10		0·10	1	30	3	0	0
Sturgeon Falls	46 16	79 54																																						
Uplands	45 48	79 25						15·4	−6·8	19	51·0	27	16·5	22	32·0					2	4	0	6	0	10	2	7	0	31				3·30	+0·37	0·80	8	23	0	0	0
Toronto	43 40	79 24	350	30·11	30·91	29 42	1·52	27·0	−2·0	65	49·0	27	0·8	23	12·4			6	11	141	15	144	31	26	77	114	180	16	744	11·6	24·3	21 SW	2·55	−0·12	0·92	14	13	0	0	0
Welland	42 59	79 17	425					26·3	−3·5	19	46·0	3	0·0	23	13·6																		4·31	+1·40	0·80	14	17	0	0	0
Peterborough	44 17	78 19	722					23·5	−2·2	31	56·0	30	12·0	23	16·0																		3·06	+0·48	1·17	8	23	0	0	0
Lindsay	44 20	78 45	872	30·09	30·88	29 42	1·46	23·1	−1·7	27	49·0	30	−5·9	23	17·2			6	10	12	1	5	7	10	11	13	13	21	93	II	IV	21 SW	2·23	−0·14	0·61	12	16	0	0	0
Deseronto	44 11	77 4	264																																					
Lakefield	44 25	78 15						26·7	+2·7	21	62·0	31	5·0	28	30·7																		0·52	−1·60	0·35	1	27	0	0	0
Kingston	44 13	76 29	285	30·12	30 98	29 54	1·44	21·3	−3·0	32	43·2	9	2·0	23	11·1			4	5	8	19	1	2	3	8	10	11	0	62		18·3	21 SW	2·79	+0·11	1·33	15	14	0	0	3
Clontarf	45 23	77 9						—			51·0	30	—																				0·72	−2·05	0·32	6	22	0	0	0
Ottawa	45 26	75 42	291	30·08	30·96	29·53	1·43	22·8	−0·7	23	46·0	27	0·0	22	15·1			5	9	2	5	9	6	5	5	15	15	0	62				2·15	−0·60	0·87	9	16	0	0	3
Rockliffe	46 9	78 6	557	30·10	30·98	29·40	1·58	16·4	−3·8	29	46·0	29	28·0	1	26·6					1	1	3	0	0	1	6	1	49	62				0·50	−1·56	0·28	8	21	0	0	0
*Sarnia	42 59	82 24	586					24·0	−6·6	11	45·0	26	−7·0	23	—					14	4	3	3	3	9	4	6	47	93				1·30	−0·49	0·40	4	27	0	0	0

ONTARIO—*Concluded.*

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE.				TEMPERATURE.												DIRECTION OF WIND FROM									VELOCITY OF WIND.			PRECIPITATION.					
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	Mean miles per hour.	Highest day's velocity.	Date and direction from.	Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA																																					
Halifax	44 39	63 36	97	29·98	30·69	28·74	1·95	28·3	− 2·2	32	51	5	30	5·8	1	14·8	.....	.....	5	5	237	100	9	51	35	47	106	129	30	744	13·5	33·0	16 SE	7·15	+1·20	1·15	13	17	4	1	0
Sydney	46 10	60 10	35	29·95	30·60	28·94	1·66	26·7	− 0·3	33	50	5	30	3·0	14	17·9	.....	.....	7	11	22	6	27	60	43	137	122	220	107	744	6·0	.....	.....	6·49	+1·58	1·78	11	19	1	0	0
a Truro	45 22	63 18	70	29·88	30·59	28·18	2·41	25·7	− 2·3	32	53	1	30	−4·1	3	20·4	.....	.....	6	7	3	10	2	4	12	26	10	13	13	93	.....	.....	.....	5·12	+2·45	0·89	10	18	4	0	2
Yarmouth	43 50	66 2	65	30·02	30·77	28·50	2·27	29·1	− 2·6	26	47	2	4	8·3	1	12·6	.....	.....	7	10	62	28	50	55	92	87	114	239	17	744	13·0	26·7	11 NW	7·05	−1·94	1·96	15	14	0	0	2
a Pictou	45 42	62 41						21·8	− 6·5	28	47·5		31	1·8	6	17·7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2·70	−1·18	0·60	6	19	1	0	0
Port Hastings	45 39	61 22	15	.....	.....	.....	.....	28·0	− 0·1	18	49·0		31	0·0	6	18·0	.....	.....	.....	.....	11	1	1	0	6	1	6	5	5	31	.....	.....	.....	5·44	+2·41	1·36	7	24	0	0	0
*Whitehead	45 15	61 8	20	.....	.....	.....	.....	26·5	− 1·7	23	39·0		20	−7·0	6	—	.....	.....	.....	.....	9	0	1	10	9	25	15	24	0	93	.....	.....	.....	2·40	−0·99	0·96	6	25	0	0	7
*Sable Island, E. Point	43 58	59 46	25	.....	.....	.....	.....	31·3	1·4	23	45·0		4	15·0	6		.....	.....	.....	.....	23	1	0	4	11	5	14	27	1	93	.....	.....	.....	4·21	+0·96	1·38	10	16	1	0	5
Sable Island, M. Station	43 57	60 6	25	.....	.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parrsboro'	45 23	64 19	10	.....	.....	.....	.....	24·1	4·5	10	49·0		25	6·0	18	17·0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7·18	+3·30	4·50	8	23	0	0	0
Wolfville	45 7	64 20	28	.....	.....	.....	.....	26·7	.....	9	52·0		5	1·0	3	17·9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5·49	—	1·30	10	19	0	0	0
Bridgetown	44 49	65 16	20	.....	.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windsor	44 59	64 6	90	.....	.....	.....	.....	25·6	—	1	49·0		28	0·0	3	16·4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5·42	—	1·43	12	19	0	0	0
P. E. ISLAND																																					
Charlottetown	46 14	63 10	38	29·96	30·66	28·50	1·16	23·7	− 2·3	31	45·6		30	− 3·0	6	15·2	.....	.....	5	8	7	52	12	61	17	186	15	233	131	744	9·2	23·3	10 SW	4·18	+1·12	0·71	11	17	0	0	0
Hamilton	46 25	63 48		.....	.....	.....	.....	21·2		8	48·0		31	0·0	14	15·8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4·81	—	1·00	12	19	0	0	0
Summerside	46 18	63 51		.....	.....	.....	.....	23·0		7	47·0		30	0·0	13	15·6	.....	.....	.....	.....	1	2	1	2	2	8	5	10	0	31	.....	.....	.....	3·93	—	0·75	9	22	0	0	0
NEWFOUNDLAND—																																					
St. John's	47 34	52 42	125	29·86	30·35	29·27	1·08	25·8	− 2·0	34	43·0		23	0·0	6	15·0	.....	.....	7	10	25	0	2	5	14	7	1	8	0	62	.....	21·0	13 N	7·30	+2·66	1·60	14	16	0	0	2
Channell	47 37	59 9	50	.....	.....	.....	.....	22·5	− 2·7	22	38·0		10	− 2·0	6	11·0	.....	.....	.....	.....	1	2	6	19	7	1	55	1	0	93	IV	VIII	13 W	3·00	−0·20	1·00	11	18	0	0	0
*Cape Norman	51 38	55 52		.....	.....	.....	.....	15·4	− 4·3	23	37·0		10	−12·0	6	—	.....	.....	.....	.....	7	7	2	6	7	10	12	12	0	93	.....	.....	.....	1·61	−0·23	0·42	29	22	5	0	2
*Amour Point	51 28	56 51		.....	.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Point Rich	50 42	57 25		.....	.....	.....	.....	17·5	− 3·8	23	33·0		28	−10·0	6	—	.....	.....	.....	.....	23	2	17	3	3	21	16	8	0	93	.....	.....	.....	1·70	−1·11	0·60	5	26	0	0	0
BERMUDA—																																					
Prospect	32 17	64 30	151	30·18	30·46	29·52	0·94	63·2	− 0·6	15	75·6		30	50·1	1	10·1	.....	.....	6	0	7	10	2	3	6	15	1	3	15	62	.....	19·2	1 NW	6·94	+2·01	1·96	15	15	0	2	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING MARCH, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
British Columbia—										
Goldstream Lake	1·54	11	17	0·39	27	.....	.....	.....	.....	
Hartley	7·85	12	19	1·82	5	.....	.....	.....	.....	
Naas Harbour	2·17	3	27	0·91	6	4·0	1	4·0	31	
Nanaimo	2·93	8	23	1·18	29·30	.....	.....	.....	.....	
Royal Oak	0·83	7	21	0·30	3	.....	.....	.....	.....	
Sooke Lake	1·52	9	22	0·35	30	.....	.....	.....	.....	
Somas River	5·50	13	18	1.27	30	.....	.....	.....	.....	
Alberta—										
Beaver Hills, W	0·03	1	25	0.03	7	1·9	1	0·8	16	3rd Aurora; 30th seeding.
Bruederheim	0·00	0	31	0·00	0	.....	.....	.....	.....	
Coutts	0·00	0	26	.....	..	.....	.....	.....	.....	
Innisfail	0·00	0	28	.....	..	0 5	3	0 3	18	
Jumping Pound	0·13	2	27	0·11	18	4 3	4	2·0	18	
Lacombe	.....	.....	30	.....	..	*	1	*	1	
Stirling	.....	.....	28	.....	..	5·0	3	3·0	13	
Saskatchewan—										
Dirt Hills	.....	.....	...	.....	..	.....	.....	.....	...	
Insinger	0·20	1	27	0·20	7	3·0	3	3 0	16 17	
Last Mountain	R	0	28	R	7	.....	.....	.....	...	
Regina	.....	.....	28	.....	..	1·0	3	0 5	16	
Manitoba—										
Belmont	0·34	1	28	0·34	8	.....	2	.....		
Cartwright	R	.....	26	R	25	2·5	4	1·0	8	
Gretna	R	.....	26	R	25	2·5	5	2 0	20	
Norquay	0·02	1	23	0·02	8	5·5	7	2 0	21	
Rapid City	0·10	2	15	0·10	7-8	1 7	11	0·8	8	Aurora 3rd, 6, 14.
Ontario—										
Ennismore	1·10	1	28	1·10	27	2·0	2	1 0	19	
Sydenham	1·80	2	27	1·35	27	9·5	2	9 0	19	
Wiarton	1·25	3	22	0 93	26	12·5	7	4 0	22	
Deer Park	1 02	3	20	0·74	3	10·1	5	7·5	19 20	
Menard's Bridge	1·46	2	25	1 46	27	7·0	4	4 5	3 4	
White Fish	1 48	2	25	1 18	26 27	7 8	4	4 8	2 3	
Nasbonsing Lake	1 41	2	25	1 41	26 27	6 7	4	4 5	2 3	
Turtle Dam	1·44	2	25	1 14	26 27	7·2	4	4 7	2 3	
Penice Bay	1·50	2	22	1·50	26-27	14·1	9	3 5	3	
Lake Talon	1 50	2	21	1·50	26-27	14·1	9	3 5	3	
Ean Claire	0·87	2	19	0 87	26 27	10·0	10	3 3	4	
Arden	1·18	4	24	0 18	28	10·0	4	4·0	22	
MacCue	0·40	2	27	0·30	27	5·0	3	3 0	20-21	
Croydon	1 50	1	24	1 50	27	8·0	6	1 0	20	
Emsdale	1·35	2	20	1 00	26	11 5	9	5 0	22	24th Aurora.
Parma	1·99	4	22	0 83	27	13·0	5	5·0	20	
Lansdowne	0 65	2	26	0·51	1	5·0	2	3·0	20	
Strathroy	2·30	8	11	0 65	3	21 5	11	6 0	19	
Westminster	0 98	4	21	0 52	26	12·0	4	6·0	19 20	
Goderich	0·90	3	23	0 50	3	11·0	5	5·0	4	
Georgetown	0·94	3	11	0 62	3	17·0	17	8 3	19	
Midland	0·00	0	25	.	.	3 5	6	1 0	8	
Aurora	0·88	4	16	0 46	3	10 4	12	3 9	19	
Princeton	1·95	3	24	1·28	26 27	9·5	4	5 0	21	
Wyoming	0·25	1	25	0 25	26	16 0	5	6·0	19	
Watford	0·75	2	.....	0 45	26	.	.	.	.	
Orangeville	1·30	2	17	1·21	27	12 8	12	6 3	19	
Montague	0·88	1	28	0·88	27	3 0	2	3 0	19 20	
Wooler	1 18	2	25	0 76	27	9 5	4	5 0	19 20	
Westport	0·71	1	25	0·71	27	7 5	6	3 5	21	
Huntsville	2 15	2	21	2 00	26	9 5	5	3 5	13	
Quebec—										
Bryson	0·70	2	27	0·50	26	5·0	1	3·0	14	
New Brunswick—										
Point Escuminac	0 55	4	21	0·15	3	26·7	7	7 2	16	

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF MARCH, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	.....	.....	0·07	0·28	0·43	0·47	0·50	0·57	0·57	0·53	0·51	0·43	0·29	0·05	.....	.....
Nanaimo	.....	.....	0·06	0·41	0·53	0·55	0·57	0·56	0·56	0·56	0·54	0·41	0·31	0·06	.....	.....
Agassiz	.....	.....	0·00	0·09	0·34	0·43	0·52	0·58	0·60	0·59	0·55	0·31	0·06	0·00	.....	.....
Battleford	.....	.....	0·13	0·63	0·69	0·70	0·78	0·78	0·74	0·67	0·61	0·60	0·18	0·09	.....	.....
Indian Head	.....	.....	0·00	0·15	0·47	0·61	0·61	0·71	0·65	0·53	0·57	0·45	0·20	0·00	.....	.....
Brandon	.....	.....	0·02	0·31	0·62	0·73	0·76	0·68	0·69	0·65	0·64	0·54	0·45	0·13	.....	.....
Winnipeg	.....	.....	0·11	0·51	0·55	0·65	0·64	0·69	0·67	0·71	0·64	0·59	0·41	0·08	.....	.....
Woodstock	.....	.....	0·06	0·16	0·29	0·30	0·41	0·45	0·37	0·36	0·35	0·32	0·19	0·05	.....	.....
Toronto	.....	.....	0·00	0·18	0·32	0·36	0·40	0·38	0·39	0·37	0·36	0·39	0·39	0·18	.....	.....
Lindsay	.....	.....	0·10	0·31	0·39	0·43	0·44	0·46	0·42	0·45	0·43	0·38	0·31	0·26	0·07	.....
Barrie	.....	.....	0·08	0·32	0·40	0·46	0·45	0·44	0·38	0·39	0·41	0·38	0·32	0·06	.....	.....
Gravenhurst	.....	.....	0·22	0·48	0·54	0·64	0·62	0·56	0·51	0·54	0·55	0·57	0·50	0·20	.....	.....
Kingston	.....	.....	0·14	0·41	0·47	0·48	0·49	0·48	0·52	0·50	0·48	0·42	0·31	0·04	.....	.....
Ottawa	.....	.....	0·04	0·38	0·55	0·59	0·60	0·58	0·56	0·56	0·53	0·49	0·37	0·04	.....	.....
Montreal	.....	.....	0·06	0·32	0·43	0·58	0·56	0·54	0·55	0·57	0·49	0·46	0·20	0·00	.....	.....
Quebec	.....	.....	0·04	0·34	0·50	0·59	0·61	0·67	0·58	0·60	0·54	0·45	0·13	0·11	.....	.....
Fredericton	.....	.....	0·16	0·52	0·62	0·70	0·71	0·71	0·63	0·53	0·53	0·15	0·43	0·26	.....	.....

	Victoria.	Nanaimo.	Agassiz.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Gravenhurst.	Kingston.	Ottawa.	Montreal.	Quebec.	Fredericton.
Mean proportion for month. (*Constant sunshine being 1.*)	0·39	0·44	0·34	0·54	0·41	0·52	0·53	0·27	0·31	0·37	0·34	0·50	0·40	0·44	0·45	0·46	0·52
Difference from average	+0·01	—	+0·09	+0·06	+0·07	+0·09	+0·04	−0·07	−0·11	−0·05	−0·03	—	−0·02	+0·08	0·00	—	+0·05
Maximum daily amount	0·84	0·87	0·75	0·80	0·71	0·87	0·90	0·81	0·84	0·97	0·90	0·95	0·90	0·85	0·91	0·91	0·93
Date	24	14	11	27	30	30	30	31	31	25	31	25	31	24	5	2	29
No. of days completely clouded	6	7	7	3	2	5	5	13	11	9	7	8	12	9	8	5	5

Aurora recorded : -

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

1. Minnedosa, Banff, IV ; Aweme, IV ; Madoc, IV.

3. Rapid City, Insinger, III ; Beaver Hills W., II ; Hillsdown, IV ; Threehills Creek, II ; Gray Hill, IV ; Foxleigh, Morden, IV ; Aweme, III ; Kenora, III ; Cape Norman, III : Trehérne, Waitefield.

4. Insinger, III ; Threehills Creek, III ; Morden, IV ; Chicoutimi, Savanne; Cape Norman, II ; Treherne.

5. Insinger, III ; Brandon, III.

6. Halifax, IV ; Battleford, II ; Quebec, III ; Rapid City, Hillsdown, IV ; Threehills Creek, III ; Gray Hill, III ; Chaplin, III ; Foxleigh, Brandon, I ; Savanne, Kenora, II; Sable Island E. Point, Waitefield, I.

7. Battleford, II ; Sydney, IV ; Gray Hill, IV.

8. Gray Hill, IV; Waitefield.

11. Foxleigh, Savanne, I.

12. Truro, III ; Grand Manan, IV; Rapid City, Insinger, III ; Gray Hill, IV ; Savanne, I ; Rutherglen.

13. Truro, IV ; Georgetown, IV ; Hillsdown, III ; Gray Hill III ; Avenue, III ; Waitefield.

14. Truro, IV ; Rapid City, Hillsdown, IV ; Chaplin, IV; Treherne, Waitefield, III.

15. Minnedosa, II ; Georgetown, IV ; Foxleigh.

16. Gravenhurst, IV ; Georgetown, IV ; Foxleigh, Savanne, Dawson, II ; Waitefield, IV.

17. Georgetown, IV ; Savanne, Rutherglen, Dawson, II.

19. Haileybury, IV ; Prince Albert, II ; Gray Hill, III ; Waitefield.

20. Qu'Appelle, III ; Prince Albert, I; Chaplin, IV.

22. Chaplin, IV.

23. Threehills Creek, IV ; Chaplin, N. Gower, IV; Kenora, IV; Waitefield, IV.

24. Gravenhurst, III ; Truro, IV ; Grand Manan, IV ; Quebec, IV ; Emsdale, II ; Georgetown, IV ; Huntsville, III ; Threehills Creek, Gray Hill, IV ; Chaplin, IV ; N. Bruce, Ursa, Madoc, IV ; Clinton, IV ; Rutherglen, Waitefield, VI.

25. Picton, *very bright ;* Quebec, III ; Hillsdown, IV ; Gray Hill, III ; Chaplin, IV ; Madoc, IV; Cape Norman, III; Waitefield, III.

26. Hillsdown, IV ; Pakan, Cape Norman, III; Waitefield, III.

27. Haileybury, II; Waitefield, IV.

28. Haileybury, III ; Gray Hill, IV ; Hillview, IV ; Aweme, III ; Chicoutimi.

29. Haileybury, III ; Battleford, III ; Threehills Creek, IV ; Pakan, III ; Aweme, IV ; Cape Norman, II ; Treherne.

30. Haileybury, III ; Foxleigh, Savanne, Waitefield, IV.

FORECASTS FOR MARCH, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1274. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	85	76	6	3	92·9
Saskatchewan	85	79	4	2	95·3
Manitoba	93	81	7	5	90·9
Lake Superior	95	82	10	3	91·6
Lower Lake Region	117	95	18	4	88·9
Georgian Bay	117	85	25	7	83·3
Ottawa Valley	110	90	13	7	87·7
Upper St. Lawrence	110	90	13	7	87·7
Lower St. Lawrence	106	88	14	4	89·6
Gulf	108	93	10	5	90·7
Maritime Provinces, West	125	109	10	6	91·2
Maritime Provinces, East	123	109	7	7	91·5
Total	1274	1077	137	60	88·9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th April,, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

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Monthly Weather Review.

VOL. XXX. APRIL, 1906. No. 4.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was unusually fine, warm and dry, the mean temperature and proportion of bright sunshine exceeding the average and the precipitation being deficient. On the lower mainland and islands rain occurred chiefly on or about the 1st, 7th, 8th, 16th and 19th to 25th, whilst on the upper mainland the dates were generally 8th, 9th, 16th, 17th, 23rd and 24th. Quite warm weather prevailed from the 3rd to 7th, 13th to 16th and 19th to 30th, 70° being frequently exceeded in the western portion of the Province and from 80° to 85° occurring at some places on the last four days of the month. Growth in vegetation was somewhat retarded by drouth.

The weather in the Western Provinces was exceedingly mild, more especially on or about the 6th, 7th and 14th to the 24th, when the temperature on several days exceeded 70° at many places and from 80° to 85° was recorded on the 24th. High winds were of frequent occurrence and although there was much fine weather from the 6th to 24th, the proportion of bright sunshine was below the average. The precipitation, which included snow at some places, was quite light, and in most districts rivers and lakes were low in consequence; falls occurred chiefly on or about the 1st, 7th, 10th, 17th, 23rd, 27th and 29th. On the 30th vegetation was somewhat more forward than usual.

In Manitoba the weather was unusually mild excepting on or about the 4th, 6th and 12th, when low temperature was general. During the second half of the month 70° was frequently exceeded, 80° or more also occurring on several days. The precipitation which varied considerably with the district occurred at most places on or about the 3rd, 9th, 13th, 18th and 25th, snow being recorded on the 3rd. During the intervening periods there was much fine weather but the proportion of bright sunshine was somewhat below the average. Vegetation was unusually forward.

In Ontario the weather was somewhat cold during the first two days when there was a marked rise in temperature and it continued mild for two or three days. On or about the 6th and 7th it was again quite cool but turned milder after the latter date. From the 13th to 21st and 25th to 30th much higher temperatures prevailed generally, 70° being recorded on or about the 19th and 29th. Rain occurred chiefly on or about the 4th, 5th, 6th, 9th, 10th, 12th, 15th, 20th, 22nd, 23rd and 30th, heavy falls being reported on or about the 10th. During the intervening periods, and more especially from the 1st to 3rd and 16th to 30th there was much bright sunshine, the aggregate amount exceeding the average. On the 29th thunder was recorded at many places. On the 30th vegetation was somewhat backward.

The weather in the Province of Quebec did not depart much from the normal, but it was slightly colder than usual and in most districts the precipitation was light. During the first twelve days the weather was mostly cold, the night temperatures generally being quite low. After this date, however, it became somewhat milder, and in the western portion of the province 60° was occasionally exceeded. Light falls of snow were unusually frequent, and on or about the 10th there was a heavy fall. Vegetation throughout the Province was backward.

In New Brunswick the weather conditions were similar to those in Quebec, it being slightly milder than usual in the southwestern portion and somewhat cool elsewhere. From the 2nd to 9th and 17th to 21st there was much fine weather, but the proportion of bright sunshine was below the average and the precipitation in most places was somewhat heavy. Rain occurred chiefly on the 10th and 11th. Vegetation was backward throughout the Province.

The weather in Nova Scotia was exceedingly dull and wet and slightly cooler than usual. Bright sunshine occurred occasionally from the 3rd to 7th and 10th to 17th; and on the 8th, 9th and 18th to 22nd it was exceedingly fine. Rain was recorded on or about the 4th, 6th, 10th, 15th and 23rd to 28th, and snow at many places on the 1st, 6th and 10th. A moderate north-east gale was reported on the 17th and south-east gales on the 11th and 24th. The condition of vegetation was below the average on the 30th.

The weather in Prince Edward Island was somewhat dull and cold and exceedingly wet in most districts. From the 1st to 4th and 16th to 22nd there was much bright sunshine and there were also some fair days, but the sky was mostly overcast and precipitation occurred on or about the 4th, 6th, 11th, 15th, 23rd and 25th to 27th, snow being recorded on the 11th and 15th. Vegetation was backward.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for April exceeded the average from British Columbia to Western Saskatchewan, along Lakes Erie and Ontario, and also over the eastern portion of Quebec and the Maritime Provinces, elsewhere in Canada it was subnormal. The extremes of difference were +·10 of an inch at Banff, Alta., and −·07 of an inch at Qu'Appelle, Sask.

HIGH AREAS.

During April ten areas of high pressure were charted. These areas were all first observed either over the North Pacific States, British Columbia, or the Northern Canadian Territories and the greater number passed south-eastward to the Atlantic. Only a few of the systems were pronounced and as a rule their accompanying temperature conditions were moderate.

LOW AREAS.

Ten areas of low pressure were sufficiently pronounced in April to permit of their paths being charted. The majority of the areas were first observed to the north of British Columbia, and followed a south-east and east path to the Gulf of St. Lawrence, but a few areas moved into the field of observation over the Far West and South-west States and thence passed north-eastward over the Lakes. Several systems were very pronounced, especially those which were attended by subsidiary developments over the Middle States. The wind velocities accompanying the lows were for the most part inconsiderable but a few moderate gales occurred. Notwithstanding the large number of areas which passed over the Western Provinces the precipitation there was for the most part very light, elsewhere in Canada except in the Maritime Provinces it was also by no means excessive.

WINDS.

In British Columbia, on Vancouver Island and over the Mainland, the south and west directions were most in evidence but frequently the direction was variable. There were five days with strong and thirteen with fresh breezes.

In Alberta and Saskatchewan the direction was slightly in favour of the westerly with thirteen days with strong and twelve with fresh breezes and two gales.

In Manitoba the direction was variable with twelve days with strong and eleven with fresh breezes and four gales.

In the Lake Region the direction was variable but favouring the northerly and westerly with four days with strong and thirteen with fresh breezes and two gales.

In the Ottawa and Upper St. Lawrence Valleys the northerly and westerly directions predominated with four days with strong and twelve with fresh breezes and two gales.

In the Lower St. Lawrence Valley and the Gulf the direction was mainly variable with ten days with strong and eight with fresh breezes and three gales.

In the Maritime Provinces the direction was variable with eight days with strong and twelve with fresh breezes and three gales.

No warnings were issued during the month for the Lake Region and the storm of the 9th and 10th in the Gulf of St. Lawrence and in the Maritime Provinces was not warned. The other storms occurring were satisfactorily warned.

TEMPERATURE.

The mean temperature of April was higher than average over the whole Dominion excepting a portion of the Maritime Provinces where there was a negative departure of from one to two degrees. The widest positive departure from average, amounting to between eight and ten degrees, occurred in Manitoba and Saskatchewan, whence westward it diminished to three degrees near the Pacific Coast, and eastward to between one and three degrees in Ontario and Western Quebec.

The Highest and Lowest temperatures in each Province during April, 1906, were :

British Columbia,	85° ·2 on 29th at Alberni,	12° ·0 on 12th at Barkerville.
Alberta,	94° ·0 on 22nd at Medicine Hat.	6° ·0 on 12th at Pekisko.
Saskatchewan	86° ·0 on 22nd at Swift Current.	13° ·0 on 3rd at Prince Albert.
Manitoba,	89° ·0 on 17th at Aweme.	6° ·4 on 4th at Brandon.
Ontario,	88° ·0 on 30th at Paris,	0° ·0 on 6th at White River.
Quebec,	67° ·0 on 19th at Brome,	2° ·0 on 7th at Chicoutimi.
New Brunswick,	64° ·0 on 30th at Chatham.	5° ·0 on 3rd at Sussex.
Nova Scotia,	67° ·0 on 30th at Port Hastings.	7° ·5 on 8th at Truro.
Prince Edward Island,	61° ·0 on 30th at Summerside.	5° ·5 on 9th at Summerside.

PRECIPITATION.

The precipitation was in excess of the normal over the Maritime Provinces, while in all other parts of the Dominion it was deficient. In British Columbia, the Western Provinces, excepting a few localities in Manitoba, and over most of Northern Ontario the total fall was very scant, and in Southern Ontario and in Quebec it was considerably short of the average for April. Halifax with 8·4 inches and Charlottetown with 6·1 inches were the two stations with the largest amount, including several inches of snow. In many districts of the Upper Ottawa Valley the total fall was less than half an inch, and this was also the case very generally in the Western Provinces.

BRIGHT SUNSHINE.

The amount of bright sunshine recorded in April was below the average over the Western and in the Maritime Provinces, elsewhere it was in excess of the average. The extremes of departure from average were +17 per cent at Agassiz, B.C., and —16 per cent at Battleford, Saskatchewan.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
BRITISH COLUMBIA—	°	′	°	′	in.	in.	in.	in.	°	°		°		°		°	°																								
Victoria	48	24	123	19	85	30·09	30·56	29·72	0·84	50·9	+ 3·5	15	70·7	29	33·8	2	17·8			5	3	78	87	21	54	80	169	159	63	8	720	11·1	21·3	7 W	0·46	−0·07	0·16	10	16	0	0	0
Barkerville	53	2	121	35	4180	30·02	30·46	29·60	0·86	38·9	+ 1·1	17	66·0	21	12·0	12	20·4			6	8	262	0	0	0	11	0	1	0	46	60		8·0	10 S	2·38	−0·51	0·44	13	17	0	0	0
Agassiz	49	14	121	31	52					52·4	+ 5·8	17	81·0	29	30·0	12	30·0			2	0	25	0	0	0	57	0	6	0	0	90				2·01	3·11	0·78	7	23	0	0	0
Port Simpson	54	34	130	26	26	29·97	30·45	29·17	1·28	45·0	+ 2·4	20	58·0	21	31·1	1	11·2			8	13	0	1	20	3	11	2	10	0	13	60		15·4	3 S E.	7·53	+0·84	1·02	26	4	0	0	2
Revelstoke	51	0	118	6	1476					16·8	—	8	75·0	30	25·0	12	24·9																		1·54		0·32	8	22	0	0	0
Kamloops	50	41	120	29	1193																																				
Princeton	49	29	120	29	1650					47·6	+ 3·2	10	82·0	21	18·0	12	36·4																		0·06	−0·68	0·04	2	28	0	0	0
Pilot Bay	49	39	116	55	2000																																				
Rivers Inlet	51	39	127	19	20	30·08	30·64	29·55	1·09	45·6	+ 1·7	13	66·8	29	27·1	1	13·5		91	7	11	0	0	6	21	0	8	12	0	43	90	1	IV	20 E	7·84	−0·81	1·04	23	7	0	0	4
Stuart's Lake	54	28	124	12	1800					37·4	+ 2·4	13	71·0	27	11·1	1	27·8																		0·81	−0·09	0·30	8	23	1	0	0
Coldstream	50	14	119	15	1246					50·4	+ 1·5	11	77·0	29	25·0	12	28·0																		0·35	−0·06	0·25	2	28	0	0	0
a Nanaimo	49	10	123	57		29·97	30·42	29·63	0·79	51·0	—	8	75·3	29	30·1	12	17·7		75	5	4	0	1	8	14	8	2	1	33	23	90	8·8	34·3	1 S W.	0·74		0·29	10	19	0	0	0
Chilliwack	49	10	131	57	21	30·09	30·53	29·74	0·79	52·4	+ 2·2	11	79·8	20	31·5	12	23·1		68	5	4	4	10	16	10	23	17	4	6	0	90				1·96	2·02	0·46	10	20	0	0	0
Winter Harbor	50	32	128	3																																				
Midway	49	0	118	46	1800																																				
Nicola Lake	50	9	120	39	2120					48·6	+ 4·6	11	78·0	22	22·0	12	28·1																		0·00	−0·68	0·00	0	30	0	0	0
West Kootenay	49	20	117	50																																				
Garry Point	49	21	123	17						49·0	+ 2·7	11	66·5	21	30·0	11	14·2																		0·65	−1·86	0·15	9	21	0	0	0
Tobacco Plains	49	1	115	5	2684					48·9	+ 4·0	11	80·1	22	29·0	19	25·8																		0·89	+0·08	0·18	8	21	0	0	0
a Vancouver	49	17	123	5	136	30·09	30·54	29·73	0·81	49·8	—	7	68·7	21	28·8	2	19·2			5	5	0	4	9	6	2	8	10	11	10	60	3·5	7·5	1 S	1·04	—	0·26	13	17	0	0	0
New Westminster	49	13	122	54	330	30·08	30·54	29·73	0·81	50·9	+ 2·4	12	73·2	29	29·5	12	20·9			6	8	1	3	11	2	1	21	3	3	15	60		8·3	9 S W.	1·42	−2·17	0·28	13	17	0	0	0
Ladner	49	5	123	4						52·1	—	7	70·0	26	28·0	11	20·7																		0·51		0·32	9	28	0	0	0
North Nicomen	49	12	122	2	50					52·4	+ 4·1	14	79·0	20	31·0	12	23·2																		2·15	−3·78	0·66	7	20	0	0	0
Quesnelle	52	59	122	30	1700					47·1	+ 4·0	12	80·0	21	22·0	12	30·0																		0·20	−0·26	0·20	1	26	0	0	0
Clayoquot	49	11	125	4	40					47·0	—	9	66·5	5	30·0	1	14·0																		6·13		1·00	18	12	0	0	0
Cranbrook	49	30	115	50	2090																																				
Massett	53	58	132	9	30																																				
Bullion	52	45	121	55	2775					13·8	—	9	75·0	21	18·0	2	24·2																		0·81	—	0·30	5	25	0	0	0
Bella Coola	52	40	126	54	150								67·0	21	30·0	42	—																		—	—	0·25	—	—	0	0	0
Cowichan	48	25	123	42	170					49·2	—	7	74·7	29	28·2	1	21·4																		0·95	—	0·49	8	16	0	0	0
Nelson	49	29	117	21	1760					50·5	—	5	74·0	29	27·0	12	27·0																		1·10	—	0·31	7	23	0	0	0
Matsqui	49	7	122	16																																				
Okanagan Mission	49	52	119	29	1200					50·8	—	7	78·8	30	24·5	2	30·1																		0·10	—	0·07	3	21	0	0	0
Alberni	49	15	124	49	200					51·5	+ 3·5	12	85·2	29	25·9	2	25·2																		2·88	−2·47	0·49	12	18	0	0	0
Kuper Island	48	54	123	38	40																														1·96	—	1·24	23	8	0	0	0
Cape Scott	50	48	128	27						45·9	—	8	59·0	5	31·5	3	10·9																								
Glacier	51	14	117	29	4072					38·2	+ 1·5	10	61·0	30	16·0	12	16·9																								
Golden	51	46	116	55	2550					47·0	—	5	74·0	30	20·0	12	29·3																		1·10	−1·46	0·30	7	23	0	0	0
Spence's Bridge	50	25	121	30	760					55·5	+ 4·2	13	85·0	30	27·0	2	30·0																		0·08	—	0·02	2	28	0	0	0
Bamfield	48	50	125	9		30·09	30·55	29·71	0·84	53·3	—	4	71·3	20	39·9	10	18·1		74	4	13	6	5	0	15	3	0	10	9	42	90				0·03	−0·32	0·12	2	27	0	0	0
Big Creek	51	40	123	0						43·5	—	3	71·0	21	15·0	10	31·3																		2·99	—	0·68	10	24	0	0	1
Nickel Plate	49	30	120	0	5400					39·6	—	3	65·0	21	15·0	2	20·4																								
Thetis Island	49	0	123	40						49·9	—	3	72·5	30	30·4	11	18·0																		0·56	—	0·13	6	24	0	0	0
Hedley										51·6	—	3	82·0	21	25·0	8	29·6																		0·50	—	0·17	14	16	0	0	0
Kitamaat	53	59	128	42						43·1	—	4	61·0	29	21·0	6	13·9			1	0	0	14	7	3	0	3	2	30						0·30	—	0·17	4	26	0	0	0
Rossland	49	5	117	48	3100					48·0	—	3	77·0	21	21·5	12	24·3																		5·56	—	0·98	14	16	0	0	0
*Port Essington	54	9	129	55	10																														0·78	—	0·27	6	24	0	0	0
Atlin	59	35	133	38																																				
Athalmur										48·4	—	1	78·0	22	20·0	12	30·5																								
YUKON :—																																								
a Dawson	64	4	139	20	1100																																				
White Horse	60	45	135	0	2075					35·2	—	2	52·0	28	10·0	10	18·7																		0·23	—	0·10	3	27	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA—*Con.*	° ′	° ′		in.	in.	in.	in.	°	°		°		°		°	°																								
Pipestone	49 34	100 58																																						
Portage la Prairie	49 57	98 1	830					43·8	+ 4·3	17	80·5	18	15·0	4	25·4																		0·82	−0·70	0·35	4	26	0	0	0
Pierson	49 11	101 15																																						
*a*St. Albans (Awenee)	49 42	99 33		28·72	28·97	28·16	0·81	46·8	+ 7·2	21	89·0	17	9·5	4	29·2																		0·92	−0·29	0·61	6	24	5	0	0
Stony Mountain	50 4	97 14	803	29·84	30·21	29·23	0·98	45·1	+ 7·0	24	78·0	17	15·0	4	27·1			5	2	7	8	3	3	9	5	7	9	2	53	11	VI	4 N W	0·28	−0·93	0·08	5	23	0	1	0
Treherne	49 36	98 40	1212					42·7	+ 4·3	11	79·0	17	11·0	3	26·0																										
Virden	49 51	100 55																																		1	0	0
Winnipeg	49 53	97 7	760	29·94	30·31	29·32	0·99	47·0	+10·0	33	80·8	25	17·5	4	26·7			5	2	17	3	5	1	19	2	4	4	5	60		28·3	3 S W	1·64	+0·13	1·07	5	21	0	2	0
ONTARIO																																								
Haileybury	47 29	79 39	687	30·02	30·11	29·46	0·98	37·8	− 0·7	13	68·0	19	3·5	2	23·9			6	0	17	2	1	3	12	3	2	3	17	60	1	III	9 S E	0·85	−0·70	0·28	8	15	6	0	5
Savanne	48 55	90 18	1506					38·7	+ 5·4	20	69·0	18	3·0	6	25·7					0	16	11	3	2	17	8	11	22	90				1·10	−0·19	0·80	2	28	0	2	0
*Cottam	42 7	82 45	606					46·8	+ 0·8	18	76·0	29	22·0	4	23·3																		1·92	−0·16	0·27	10	20	0	0	0
Brantford	43 10	80 21	750					45·1	+ 2·0	26	76·0	29	23·0	7	23·6																		1·92	+0·09	1·23	5	25	0	0	0
Parry Sound	45 19	80 0	635	30·02	30·42	29·56	0·86	41·2	+ 2·2	30	70·0	29	22·0	24	20·5			5	6	69	86	72	50	19	158	163	85	18	720	8·0	13·3	14 S	1·49	−0·51	0·61	9	18	0	1	4
Owen Sound	44 34	80 55	597					43·3	+ 2·8	28	79·0	29	23·0	2	20·7					12	4	5	11	10	9	14	23	2	90				1·10	−1·31	0·40	12	18	0	0	0
Beatrice	45 8	79 20	806					39·9	+ 1·4	36	75·0	19	16·0	2	21·3			4	6	7	2	1	9	7	1	3	24	36	90	1	V	9 S E	1·55	−0·59	0·70	9	21	0	1	2
Coldwater	44 38	79 40	600																																					
Gravenhurst	44 54	79 20	770					40·2	+ 0·6	35	72·0	19	18·0	7	22·0			4	3	11	3	5	10	4	5	19	10	23	90	11	VI	9 S E	0·85	−0·76	0·53	6	19	3	1	0
Haliburton	45 1	78 28						40·4	− 0·6	18	75·0	19	11·0	1	27·2																										
*Point Clark	44 5	81 44	595					41·0	+ 2·2	34	80·0	29	24·0	1	—			3	0	45	0	2	1	32	4	3	3	0	60	IV	IX	15 N	1·05	−0·91	0·79	2	28	0	1	0
Birnam	43 2	81 55	600					44·3	+ 1·0	23	72·3	29	21·2	22	19·4					11	3	7	2	3	6	7	21	0	60				1·90	−0·06	0·54	9	21	0	0	0
London	42 59	81 13	808	30·03	30·45	29·61	0·84	45·2	+ 2·4	23	74·0	29	25·5	3	23·3			4	4	0	3	1	3	1	19	17	46	0	90	1	II	8 S E	1·96	−0·42	0·67	9	16	0	2	0
Port Stanley	42 40	81 13	592	30·06	30·18	29·65	0·83	43·2	+ 1·0	32	65·3	28	24·7	23	20·2			4	4	3	2	7	6	2	13	13	14	0	60		28·0	9 E	1·88	−0·50	0·49	12	17	0	1	3
Woodstock	43 8	80 47	980																																					
Port Dover	42 47	80 13	635					43·2	− 0·3	30	61·5	13	25·3	8	17·7																		2·09	−0·21	0·39	11	19	0	1	0
Pelee Island	41 50	82 38	585					44·1	0·0	26	54·0	17	30·0	6	8·4																		0·89	−2·25	0·41	3	27	0	0	0
Paris	43 12	80 25	840					47·5	+ 3·8	17	88·0	30	25·0	8	28·6																		2·06	+0·16	0·66	7	23	0	1	0
Bancroft	45 1	77 50						40·6	+ 2·1	15	72·0	19	13·0	6	24·4																		1·57	−0·30	0·90	3	26	0	0	0
Rutherglen	46 15	78 48						39·7	0·4	11	71·8	29	11·2	2	23·7																		0·70	−0·78	0·42	3	23	2	0	0
Agincourt	43 47	79 16						42·5	− 0·3	10	70·0	20	24·0	7	19·6																		1·27	−1·00	0·75	5	25	0	0	0
Hamilton	43 16	79 51	403																																					
Port Hope	43 56	78 20						43·8	+ 0·2	10	67·0	19	23·0	6	16·8																		2·19	0·26	1·43	4	26	0	0	0
Kinmount	44 45	78 38																																						
Cockburn Island	45 57	83 18	610					40·3	—	8	65·0	19	17·0	1	20·4					3	3	4	4	7	13	11	12	3	60				2·44	—	0·79	6	24	0	0	12
Chatham	42 23	82 12	595					47·4	+ 2·0	19	76·0	29	22·0	4	24·1																		1·92	−0·27	0·80	6	24	0	0	0
Meaford	44 37	80 37						41·5	—	8	72·0	20	20·0	1	17·4					15	4	7	2	0	16	14	2	0	60				0·97	—	0·53	8	22	0	1	1
Listowel	43 44	80 58						39·7	0·0	12	69·0	30	20·0	5	20·0																		1·75	0·17	0·31	5	25	0	0	0
Bruce Mines	46 18	83 55	595					40·6	—	8	67·0	26	21·0	5	21·6																		1·56	—	0·64	8	22	0	1	0
Kenora	49 48	94 32	1102					44·2	—	7	79·6	25	18·0	4	22·5																					4	26	1	0	0
Sturgeon Falls	46 16	79 54																																						
Uplands	45 48	79 25						35·1	− 3·2	19	65·0	19	7·0	24	35·2					1	2	0	2	4	9	4	11	0	30				1·12	−1·20	0·24	8	22	0	2	0
Toronto	43 40	79 24	350	30·03	30·16	29·68	0·78	44·1	+ 2·7	64	72·0	18	27·3	3	17·9	34·0	69	5	3	170	8	118	26	61	48	164	101	24	720	10·0	26·4	8 E	1·77	−0·66	0·80	12	16	0	0	0
Welland	42 59	79 17	425					41·2	+ 1·0	29	72·0	19	23·0	23	21·4																		1·81	−0·87	0·48	9	21	0	1	0
Peterborough	44 17	78 19	722					42·9	+ 0·9	36	72·0	19	24·0	3	21·0																		1·26	−0·60	0·80	4	26	0	0	0
Lindsay	44 20	78 45	872	30·00	30·39	29·60	0·79	43·4	+ 2·4	21	71·7	19	20·8	8	21·7			5	5	9	1	0	11	9	4	8	28	20	90	11	VI	9 S E	1·28	−0·42	0·46	9	20	0	2	1
Deseronto	44 11	77 4	264																																					
Lakefield	44 25	78 15						44·7	+ 3·3	20	69·0	15	12·0	1	30·5																		0·15	−1·69	0·15	1	29	0	0	0
Kingston	44 13	76 29	285	30·02	30·46	29·62	0·84	40·9	0·3	31	65·0	29	22·2	2	16·9			6	7	6	12	6	3	1	16	6	8	2	60		14·6	30 S W	1·89	−0·13	0·64	10	17	0	0	0
Clontarf	45 23	77 9																																						
Ottawa	45 26	75 42	294	29·97	30·38	29·56	0·82	43·2	+ 2·0	23	72·0	19	20·0	7	20·7			5	4	4	1	12	2	3	11	6	21	0	60				0·87	−1·05	0·21	9	16	0	1	1
Rockliffe	46 9	78 6	557	30·01	30·40	29·40	1·00	40·4	+ 1·4	27	71·0	19	11·0	7	22·6			5	5	0	0	3	0	0	0	14	0	43	60				0·34	−1·22	0·20	4	26	0	0	1
*Sarnia	42 59	82 24	586					42·5	+ 3·1	12	73·0	19	25·0	1	—					12	5	4	2	7	6	1	2	1	51				1·52	−0·63	0·70	5	25	0	0	0

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a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'd.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA—																																								
Halifax	44 39	63 36	97	29·96	30·66	29·32	1·34	38·9	— 0·5	32	62·0	28	18·8	8	15.1	.....	.....	6	9	78	203	32	43	182	75	29	25	53	720	10·1	20·0	24 SW	8·38	+4·04	2·16	13	12	1	0	5
Sydney	46 10	60 10	35	29·98	30·63	29·34	1·29	34·5	— 1·3	33	57·0	27	14·0	10	13·9	.....	.....	8	17	121	89	26	57	62	104	14	95	152	72	3·8	12·0	11 S E	4·72	+1·07	0·89	14	16	0	0	5
*a*Truro	45 22	63 18	.....	29·98	30·57	29·18	1·39	37·6	— 0·2	31	66·3	21	7·5	8	19·6	.....	.....	7	7	9	20	4	15	4	15	2	7	14	90	.....	.....	.....	5·93	+3·07	1·63	11	17	1	2	0
Yarmouth	43 50	66 2	65	29·95	30·56	29·16	1·40	39·3	— 0·1	26	55·0	19	20·4	3	13·4	.....	.....	5	7	100	59	15	118	112	31	127	144	23	120	9·9	21·2	16 N	3·89	+0·77	0·70	12	16	0	2	6
*a*Pictou	45 42	62 43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Hastings	45 39	61 32	45	.....	.....	.....	.....	36·3	— 0·8	14	67·0	30	13·0	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5·05	+1·86	2·27	6	24	0	0	2
*Whitehead	45 15	61 8	20	.....	.....	.....	.....	33·7	4·3	23	46·0	19	19·0	3	—	.....	.....	.....	.....	21	9	5	30	5	11	0	4	2	90	.....	.....	.....	3·53	−0·39	1·62	5	25	0	0	5
*Sable Island, E. Point	43 58	59 46	25	.....	.....	.....	.....	36·9	1·2	23	49·0	30	26·0	8	—	.....	.....	.....	.....	12	30	3	20	10	3	2	7	3	90	.....	.....	.....	3·95	+1·28	1·32	12	18	0	0	9
Sable Island, M. Station	43 57	60 6	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parrsboro'	45 23	64 19	40	.....	.....	.....	.....	36·6	2·4	10	62·5	30	12·0	2	15·5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2·39	−1·03	0·75	6	24	0	0	0
Wolfville	45 7	64 20	28	.....	.....	.....	.....	39·6	.....	9	64·0	30	16·0	3	19·0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2·97	—	1·05	9	18	0	0	0
Bridgetown	44 49	65 16	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windsor	44 59	64 6	90	.....	.....	.....	.....	38·1	.....	4	65·0	22	11·0	3	16·6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1·58	—	1·39	12	18	0	0	0
P. E. ISLAND—																																								
Charlottetown	46 14	63 10	38	29·97	30·68	29·28	1·40	35·1	— 1·1	31	60·3	30	11·0	8	13·5	.....	.....	6	9	20	227	12	169	57	72	3	58	102	720	9·1	.....	.....	6·10	+3·42	1·08	13	15	0	2	0
Hamilton	46 25	63 48	.....	.....	.....	.....	.....	34·0	—	8	59·0	22	11·0	8	14·2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6·49	—	2·00	9	21	0	0	0
Summerside	46 18	63 51	.....	.....	.....	.....	.....	4·7	—	7	61·0	30	5·5	9	13·9	.....	.....	.....	.....	5	4	0	5	3	6	1	6	0	30	.....	.....	.....	3·45	—	1·87	8	22	0	0	0
NEWFOUNDLAND—																																								
St. John's	47 34	52 42	125	29·95	30·48	29·13	1·35	34·0	— 0·8	34	55·0	23	12·0	15	13·0	.....	.....	8	16	28	4	2	5	17	3	0	0	1	60	.....	19·3	1 N	4·81	+0·66	1·40	17	13	0	0	13
Channell	47 37	59 9	50	.....	.....	.....	.....	31·6	— 1·7	22	47·0	21	14·0	3	9·0	.....	.....	7	10	3	1	1	41	10	4	21	6	0	90	III	VI	11 SE	1·10	+1·28	1·09	4	19	0	0	7
*Cape Norman	51 38	55 52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Amour Point	51 28	56 51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Point Rich	50 42	57 25	.....	.....	.....	.....	.....	28·4	— 1·6	4	50·0	21	— 5·0	10	—	.....	.....	.....	.....	16	17	17	10	14	14	2	0	0	90	.....	.....	.....	2·60	+0·57	0·60	8	22	0	0	1
BERMUDA—																																								
Prospect	32 17	64 30	151	30·09	30·38	29·72	0·66	63·4	— 1·1	15	74·6	29	46·4	4	9·5	.....	.....	6	1	5	5	1	5	9	11	7	12	5	60	.....	28·3	19 NW	3·32	−1·73	0·96	12	17	0	1	0

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF APRIL, 1906.

	Hours Ending:															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	.....	0·04	0·33	0·49	0·55	0·62	0·71	0·67	0·61	0·61	0·60	0·55	0·46	0·29	0·03	.
Nanaimo	.....	0·13	0·31	0·61	0·69	0·69	0·65	0·69	0·67	0·61	0·61	·54	0·46	0·33	0·08	.
Agassiz	.....	.....	0·02	0·26	0·39	0·55	0·67	0·61	0·68	0·66	0·66	0·57	0·33	0·14	0·06	
Battleford	.....	.....	0·11	0·32	0·40	0·46	0·58	0·52	0·55	0·63	0·54	0·53	0·26	0·00	.	
Indian Head	.....	.....	0·01	0·22	0·41	0·53	0·61	0·60	0·60	0·55	0·53	0·56	0·37	0·04	.	.
Brandon	.....	....	0·10	0·36	0·56	0·58	0·68	0·73	0·74	0·74	0·69	0·61	0·51	0·25	.	
Winnipeg	.....	0·13	0·43	0·58	0·66	0·67	0·65	0·59	0·56	0·55	0·50	0·50	0·48	0·29	0·06	
Woodstock	.....	0·02	0·14	0·52	0·60	0·62	0·62	0·61	0·62	0·58	0·61	0·61	0·57	0·21	0·07	
Toronto	.....	0·00	0·18	0·45	0·52	0·61	0·67	0·68	0·65	0·67	0·64	0·69	0·65	0·45	0·00	
Lindsay	.....	0·00	0·35	0·44	0·51	0·57	0·59	0·64	0·63	0·62	0·62	0·65	0·59	0·49	0·37	0·02
Barrie	.....	0·01	0·34	0·54	0·58	0·67	0·66	0·66	0·67	0·65	0·63	0·63	0·48	0·07	0·00	...
Gravenhurst	.....	0·06	0·50	0·61	0·66	0·68	0·68	0·67	0·68	0·67	0·64	0·59	0·59	0·53	0·34	
Kingston	.....	0·08	0·37	0·45	0·53	0·65	0·66	0·70	0·61	0·60	0·55	0·50	0·47	0·33	0·03	
Ottawa	.....	0·06	0·32	0·48	0·58	0·62	0·62	0·67	0·70	0·67	0·67	0·60	0·55	0·33	0·00	
Montreal	.....	0·4	·30	0·47	0·51	0·52	0·46	0·47	0·42	0·47	0·53	0·46	0·29	0·05	·00	
Quebec	.....	.....	0·09	0·31	0·37	0·39	0·47	0·60	0·60	0·69	0·57	0·69	0·60	0·40	0·02	
Fredericton	.....	0·04	0·35	0·46	0·50	0·52	0·57	0·47	0·49	0·48	0·48	0·48	0·43	0·41	0·12	

	Victoria.	Nanaimo.	Agassiz.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Gravenhurst.	Kingston.	Ottawa.	Montreal.	Quebec.	Fredericton.
Mean proportion for month. (*Constant sunshine being 1.*)	0·48	0·52	0·41	0·35	0·37	0·48	0·48	0·48	0·51	0·52	0·51	0·52	0·49	0·51	0·42	0·42	0·43
Difference from average	+0·08		+0·17	−0·16	0·01	0·07	−0·01	+0·05	+0·02	+0·02	−0·06	—	+0·01	+0·06	−0·07	—	0·05
Maximum daily amount	0·91	0·92	0·83	0·74	0·71	0·77	0·96	0·84	0·83	0·98	0·95	0·91	0·91	0·90	0·91	0·85	0·94
Date	3	28	29	12	18	16	22	27	28	24	13	25	24	24	16	5	7
No. of days completely clouded	3	4	3	5	7	3	7	7	4	7	5	3	4	3	6	5	10

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING APRIL, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
BRITISH COLUMBIA—										
Goldstream Lake	1·41	16	14	0·49	8	.....	.....	.....	.....	
Hartley Bay	16·40	25	5	1·91	14	.....	.....	.....	.....	
Naas Harbour	6·33	22	8	1·02	6	.....	.....	.....	.....	
Nanaimo 2)	0·50	2	28	0·40	8	.....	.....	.....	.....	
Somas River	3·01	10	20	0·91	8	.....	.....	.....	.....	
Victoria	0·51	5	25	0·30	8	.....	.....	.....	.....	
Coquitlam	1·37	7	23	0·27	23	.....	.....	.....	.....	
ALBERTA—										
Bruederheim	0·51	4	26	0·26	17	.....	.....	.....	.....	
Beaver Hills, W	0·39	4	26	0·18	17	.....	.....	.....	.....	
Coutts	R	1	28	.....	.....	*	1	*	28	1st high wind. Snowstorm.
Innisfail	0·20	1	26	0·20	23	*	2	*	1	25th, Thunder.
Jumping Pond	0·19	5	22	0·08	25	*	1	.....	.....	
Kimball	0·14	2	27	0·10	26	8·0	1	8·0	1	
Lacombe	0·15	3	27	0·08	16	.....	.....	.....	.....	
Magrath	0·32	2	25	0·18	24	11·0	2	11·0	1	
Stirling	0·56	3	26	0·32	27	6·0	2	6·0	2	
SASKATCHEWAN—										
Regina 62	.....	.....	25	.....	.....	19·5	5	6·0	11	
Insinger	1·15	2	26	0·11	25	3·0	2	3·0	2	
Warren	0·36	2	25	0·20	11	30·0	3	14·0	12	
Lost Mountain	.....	.....	27	.....	.....	.....	2	.....	2	2d. Fierce Blizzard drifts 6 ft. high.
MANITOBA—										
Belmont	1·00	10	20	0·45	27	.....	2	.....	.....	
Beaver	0·18	2	28	0·18	26	.....	.....	.....	.....	
Cartwright	0·91	5	21	0·71	26	3·3	2	3·0	4	
Gretna	0·64	2	27	0·55	12	.....	.....	.....	.....	
Norquay	0·75	2	23	0·50	5	*	2	.....	.....	
Rapid City	0·40	3	26	0·31	27	5·0	1	5·0	2	
Rosebank	0·43	3	27	0·25	12	.....	.....	.....	.....	
ONTARIO										
Goderich	1·10	4	25	0·40	9	2·0	1	2·0	5	
Dutton	1·86	6	21	1·00	8	2·0	1	2·0	6	
Lions Head	1·64	5	24	0·77	10	.....	.....	.....	.....	
Westport	0·84	6	23	0·29	10	1·3	2	1·0	6	
Westminster	1·14	4	23	0·72	9	*	2	.....	.....	
Wooler	1·99	6	23	1·21	9	1·0	1	1·0	5	
Sydenham	1·60	2	26	1·25	9	4·0	2	3·0	10	
Princeton	2·17	5	25	1·13	9	.....	.....	.....	.....	
Strathroy	1·72	10	20	0·38	8	1·5	1	1·5	5	
Emsdale	1·37	10	16	0·17	11	*	4	.....	.....	
MacCue	0·91	5	23	0·33	9	3·0	3	2·0	10	
Brittania Bay	0·57	5	25	0·23	21	.....	.....	.....	.....	
Nasbonsing Lake	1·02	6	24	0·27	28	*	1	.....	.....	
White Fish	1·16	6	24	0·47	10	.....	.....	.....	.....	
Turtle Dam	1·14	6	24	0·46	10	*	1	.....	.....	
Kioshkoquie Lake	0·64	8	20	0·33	30	3·5	2	2·5	9	
Menard's Bridge	1·02	6	24	0·37	29	*	2	.....	.....	
Parma	1·45	3	26	1·05	10	2·5	2	2·5	10	
Arden	1·49	9	21	0·62	10	3·0	2	2·0	10	
Aurora	1·32	6	23	0·51	9	2·3	1	2·3	5	
Watford	1·55	6	24	0·37	8	.....	.....	.....	.....	
Croydon	1·30	3	25	1·05	11	3·5	2	2·5	10	
Georgetown	2·72	8	17	1·18	9	2·4	3	1·5	5	
Midland	1·45	8	21	0·83	9	*	1	*	7	
Lansdowne	0·69	2	28	0·54	10	.....	.....	.....	.....	
Wyoming	1·42	4	25	0·70	9	2·0	2	2·0	5	
Huntsville	1·07	2	24	0·75	14	3·5	4	1·5	11	
Montague	0·81	2	28	0·70	9	.....	.....	.....	.....	
Orangeville	1·11	4	23	0·81	10	4·2	3	2·3	6	
Ennismore	0·00	0	28	.....	.....	17·0	2	10·0	29	
Wiarton	1·53	5	24	0·94	9	1·0	1	1·0	5	
Penice Bay	1·09	4	26	0·44	30	2·0	1	2·0	10	
Rutherglen	0·89	3	26	0·44	30	1·5	1	1·5	10	
QUEBEC—										
Bryson	1·05	5	25	0·70	12	.....	.....	.....	.....	
NEW BRUNSWICK										
Point Escuminac	0·50	8	18	0·07	24	14·1	4	9·2	11	
NOVA SCOTIA										
Port Morien	1·12	5	21	0·46	17	1·0	1	1·0	10	

Aurora recorded : -

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

2. Haileybury, IV.

3. Halifax, IV.

9. Fort Vermillion, II.

10. Battleford, II ; Fort Vermillion, IV.

11. Waitefield, IV.

12. Fort Vermillion.

13. Hillview, III ; Aweme, III.

14. Minnedosa, IV.

18. Cape Magdalene.

19. Fort Vermillion, IV.

20. Chaplin, III ; Alameda, IV.

21. Madoc, IV ; Hillsview, II ; Treherne, Morden, IV; Aweme, III.

22. Haileybury, III ; Minnedosa, II ; Morden, IV ; Aweme, IV.

23. Gravenhurst, III ; Haileybury, III; Georgetown, IV ; Rapid City, Chaplin, III ; Rutherglen, III ; Lucknow, IV ; Kenora, III ; Madoc, III ; Aweme, II ; Fort Vermillion, II.

24. Gravenhurst, IV.; Haileybury, III ; Georgetown, IV; Chaplin, IV ; Gray Hill, IV ; Hillsdown, IV ; N. Brnee, Madoc, II ; N. Gower, Stuart's Lake Fort Vermillion, IV.

25. Haileybury, II ; Emsdale, IV ; Waitefield, IV ; Fort Vermillion, IV.

26. Waitefield, IV ; Fort Vermillion, III.

27. Fort Vermillion, IV.

28. Renfrew, III ; Gravenhurst, IV ; Truro, IV ; Haileybury, IV ; Georgetown, IV ; Rapid City, Grand Manan, IV; Quebec, III ; Waitefield, IV ; Rutherglen, III ; N. Gower, Aweme, III ; Fort Vermillion, IV.

29. Waitefield, IV ; Fort Vermillion, III.

30. Waitefield, IV ; Fort Vermillion, III.

Thunder recorded on :—

2. Rapid City, Aweme.

3. Belmont, Minnedosa.

4. Bermuda.

7. Estevan, Foxleigh.

8. Minnedosa, Okanagan Mission.

12. Savanne.

13. Lindsay, Westport, Savanne.

14. Lion's Head, Uplands, Madoc, Parry Sound, Saugeen, Meaford.

16. Fort Vermillion.

17. Oakbank, Pekisko.

22. Calgary, Waitefield.

23. Truro, Charlottetown, Estevan, Foxleigh.

24. Savanne, Medicine Hat, Gleichen.

25. Barnardo, Stony Mountain, Jumping Pond, Gretna, Belmont, Minnedosa, Winnipeg, Cottam Hillview, Almasippi, Oakbank, Moosomin.

26. Barnardo, Rapid City, Winnipeg, Hillview.

27. Barnardo, Belmont, Yarmouth.

28. Truro, Point Clark, Stony Creek, Charlottetown, Cottam, Birnam.

29. Lindsay, London, Gravenhurst, Lion's Head, Westport, Princeton, Emsdale, Georgetown, Midland, Wyoming, Montague, Wooler, Paris, Collingwood, Madoc, Port Stanley, Port Dover, Lucknow, Ursa, Scarboro, Toronto.

30. Renfrew, London, Westport, MacCue, Parma, Arden, Lansdowne, Uplands, Yarmouth, Ottawa, Beatrice, Meaford, Clontarf, Bala, Sutton.

First record of appearance of Spring Birds, &c., during April:—

Robins.—Renfrew, 2nd; Gravenhurst, 2nd; Truro, 19th; Norquay, 5th; Dutton, 1st; Wooler, 8th; Emsdale, 2nd; Huntsville, 4th; Orangeville, 2nd; Brome, 8th; St. Stephen, 14th; Summerside, 8th; Pakan, 26th; Hillsdown, 9th; Insinger, 13th; Hillview, 28th; Beatrice, 2nd; Agincourt, 3rd; Savanne, 27th; Rutherglen, 4th; Uplands, 10th; Bala, 7th; Lucknow, 2nd; Peterboro', 1st; Stony Creek, 2nd; Uxbridge, 6th.

Blackbirds.—Truro, 19th; Norquay, 12th; Westport, 1st; Brome, 9th; Hillsdown, 15th; Gravenhurst, 2nd; Gatesgarth, 13th; Hillview, 5th; Brantford, 2nd; Rutherglen, 14th; Point Clark, 4th; Peterboro', 3rd; Uxbridge, 10th; Sutton, 2nd; Scarboro', 3rd; Toronto, 4th.

Swallows.—Chilliwack, 4th; Norquay, 20th; Meaford, 13th; Ursa, 24th; Sutton, 25th.

Loon.—Gravenhurst, 14th; Ursa, 28th.

Crows.—Haileybury, 4th.

Ducks.—Norquay, 3rd; Gretna, 1st; Bruederheim, 4th; Estevan, 1st; Insinger, 6th; Gatesgarth, 1st; Almasippi, Hillview, 2nd; Cottam, 3rd.

Meadow Larks.—Norquay, 6th; Dutton, 14th; Knee Hill, 10th; Hillview, 12th; Brantford, 1st; Agincourt, 10th.

Flickers.—Norquay, 13th.

Bluebirds.—Norquay, 27th; Dutton 8th; Strathroy, 12th; Toronto, 3rd.

Wild Geese.—Gretna, 1st; Strathroy, 1st; Insinger, 6th; Gatesgarth, 1st; Alameda, 11th; Almasippi, 7th; Hillview, 2nd; Rutherglen, 22nd; Stony Creek, 3; Ursa, 19th.

Frogs.—Truro, 30th; Norquay, 14th; Princeton, 2nd; Arden, 17th; Huntsville, 18th; Wiarton, 13th; Brome, 13th; Alameda, 4th; Almasippi, 6th; Hillview, 15th; Meaford, 12th; Brantford, 7th; Cottam, 1st; St. Stephen, 29th; Bruederheim, 10th; Estevan, 2nd; Foxleigh, 1st; Insinger, 4th; Gatesgarth, 7th; Agincourt, 18th; Savanne, 16th; Rutherglen, 18th; Bala, 16th; Point Clark, 2nd; Lucknow, 2nd; Uxbridge, 15th; Clinton, 3rd; Sutton, 6th; Toronto, 13th.

FORECASTS FOR APRIL, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1175. These were divided as follows:—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	83	68	10	5	87·9
Saskatchewan	84	60	17	7	81·5
Manitoba	86	61	19	6	81·9
Lake Superior	100	73	20	7	83·0
Lower Lake Region	108	92	14	2	91·7
Georgian Bay	108	95	11	2	93·0
Ottawa Valley	98	80	16	2	89·8
Upper St. Lawrence	98	80	16	2	89·8
Lower St. Lawrence	103	71	20	12	78·6
Gulf	101	70	20	11	79·2
Maritime Provinces, West	101	73	19	12	79·3
Maritime Provinces, East	102	70	22	10	79·4
Total	1175	893	204	78	84·7

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
28th May, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

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Monthly Weather Review.

VOL. XXX. MAY, 1906. No. 5.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was slightly warmer than usual, and whilst in the northern portion of the Province the rainfall was light it was somewhat wet elsewhere. Warm periods occurred from the 8th to 11th, 23rd to 25th and last four days, when the temperature was between 70 and 80 at most places. Comparatively fine weather prevailed during the first half of the month, after which rain was frequent, more especially from the 16th to 20th and 24th to 28th. Vegetation was somewhat backward up to the 15th, but after that date it made rapid progress.

The weather in the Western Provinces was mostly cool and wet, the only warm period of importance occurring about the 9th to 11th when the temperature exceeded 80 degrees at many places. Throughout the greater portion of the month the nights were cool and frosts were somewhat frequent. Much fine bright weather occurred during the first twelve days, but the mean proportion of bright sunshine was considerably below the average and rain was frequent after the 12th. Vegetation made fair progress during the last week, but on the 31st it was somewhat backward.

In Manitoba the weather conditions were similar to those in the N.-West Provinces, it being somewhat cool and wet and light frosts occurring somewhat frequently at night. From the 10th to 16th quite warm weather prevailed and on several occasions during this period 80 degrees was exceeded at many places. Clouded skies were somewhat frequent and the proportion of bright sunshine was below the average. Rainy periods were noted on or about the 2nd to 5th, 8th, 14th to 18th and 27th to 31st. Strong winds and gales were recorded on many days. The condition of vegetation was normal.

In Ontario the weather was somewhat cool in most districts and unusually dry, but with these exceptions the departures from the normal were unimportant. Much bright sunshine occurred during the first five or six days, also from the 14th to 25th, and last three days of the month, but the sky was frequently overcast and showers and thunderstorms were recorded on or about the 2nd, 8th, 9th, 12th, 13th, 17th, 18th, 26th and 28th. Hail was reported from several stations on or about the 2nd, and snow occurred in the county of Hastings on the night of the 8th. Light frosts at night were somewhat frequent in eastern districts and upon several dates they were general, causing some damage to plant life. During the last ten days of the month vegetation made rapid progress and on the 31st its condition was normal.

The weather in the Province of Quebec was comparatively cool and dry, both the temperature and rainfall being below the average at most places. Showers were frequent during the first five days also from the 8th to 13th, 16th to 18th, and on or about the 26th, the intervening periods being mostly fine with much bright sunshine. Light frosts at night were somewhat frequent and snow was recorded at Quebec on the 11th. Strong winds were also of frequent occurrence, more especially in the western portion of the Province. On the 31st vegetation was backward.

In New Brunswick the weather did not depart much from the normal excepting in the heavy falls of rain which occurred at many places on or about the 4th, 6th to 8th, 10th, 14th, 18th and 27th to 31st, bringing the aggregate amount considerably above the average. Fine weather was general during the intervening periods and the proportion of bright sunshine slightly exceeded the average. Light frosts were somewhat frequent at night and vegetation was backward on the 31st.

The weather in Nova Scotia was slightly cooler than usual and much wetter, the rainfall which occurred chiefly on or about the 2nd, 4th, 10th, 18th, 23rd and 28th to 30th, being considerably above

the average. The first week was mostly cloudy and warm, the second cloudy and cool, the third fair and cool, and the last week cloudy and wet. Light frosts at night were recorded occasionally and at Low Point ice formed on the 16th. Vegetation was backward in most districts.

In Prince Edward Island the weather like that in New Brunswick was somewhat cool and exceedingly wet. Rain occurred frequently and was often quite heavy during the first ten days after which it was somewhat finer though wet on the 14th, 18th and 27th to 31st. Very light frosts were noted on or about the 3rd, 16th and 21st. Vegetation was quite backward.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for May was below the normal over southern British Columbia also from northern and eastern Ontario to the Maritime Provinces, elsewhere the normal value was exceeded. The extremes of departure from average were—0·07 of an inch at Victoria, B.C. and +0·11 of an inch at Battleford, Sask.

HIGH AREAS.

Six distinct systems of high barometric pressure were charted in May. All were first observed over the western and north-western portions of the continent and they all but one moved southwestward to the Atlantic Ocean. The sixth area travelled southward from the north-west portion of the continent to the Lake Region, thence down the St. Lawrence valley. The areas were for the most part unseasonably energetic accompanied by cool conditions, local night frosts being recorded on several occasions in nearly all portions of the Dominion.

LOW AREAS.

In May eight areas of low pressure were sufficiently well-defined to permit of their tracks being charted and in addition to these there were a few depressions whose movements were too irregular to allow of them being traced with any degree of accuracy. The ill-defined areas were confined to the western portion of the continent. The lows were mainly of the western and north-western type and followed an easterly path to the Gulf of St. Lawrence. One area moved into the field of observation from the Gulf of Mexico and when over Tennessee coalesced with another depression from the Western States, and the combined system moved up the coast and passed over Newfoundland, attended by stormy weather.

WINDS.

In British Columbia on Vancouver Island and over the Mainland the direction was variable with ten days with strong and seven with fresh breezes and one gale.

In Alberta and Saskatchewan the direction was variable favouring somewhat the north and east with nineteen days with strong and ten with fresh breezes and two gales.

In Manitoba the north and east directions were most in evidence with thirteen days with strong and seven with fresh breezes and four gales.

In the Lake Region the direction was largely variable but slightly inclined to the southerly and westerly. There were seven days with strong and ten with fresh breezes and one moderate gale occurring between the 8th and 9th.

In the Ottawa and Upper St. Lawrence Valleys the direction was variable with a slight tendency towards the westerly. There were eight days with strong and ten with fresh breezes.

In the Lower St. Lawrence Valley and the Gulf the direction was mainly variable slightly favouring the north and west. There were eleven days with strong and ten with fresh breezes and three gales the latter occurring on the 1st, 9th and 10th and locally on the 29th.

In the Maritime Provinces the direction was variable with ten days with strong and eleven with fresh winds and two gales. The storms were experienced on the 10th and between the 29th and 30th, the former being widespread, the latter only very local.

The general and widespread gale which occurred between the 8th and 10th was successfully warned, but the local gales were not warned.

TEMPERATURE.

The temperature was from average to two degrees above in British Columbia, from average to a little above in counties contiguous to the western portion of Lake Ontario, one degree above at a few places in New Brunswick and Nova Scotia, and below elsewhere. In the prairie provinces the negative departure ranged from one to four degrees.

The Highest and Lowest temperatures in each Province during May, 1906, were :

British Columbia,	87° ·6 on 9th at Kamloops,	21° ·5 on 8th at Atlin.
Alberta,	90° ·8 on 10th at Lethbridge,	9° ·0 on 5th at Knechill.
Saskatchewan	89° ·0 on 10th at Gatesgarth,	17° ·0 on 5th at Chaplin.
Manitoba,	94° ·0 on 19th at Morden,	10° ·0 on 6th at Treherne.
Ontario,	89° ·5 on 19th at Renfrew,	16° ·0 on 9th at Savanne.
Quebec,	86 ·0 on 18th at Sherbrooke & Montreal,	19° ·8 on 21st at Chicoutimi.
New Brunswick,	81° ·5 on 19th at Chatham,	26° ·0 on 11th at St. Stephen.
Nova Scotia,	75° ·0 on 20th at Wolfville,	27° ·0 on 21st at Parrsboro.
Prince Edward Island,	71° ·0 on 20th at Hamilton,	32° ·0 on 17th at Charlottetown.

PRECIPITATION.

The Precipitation was deficient over the Northern portions of British Columbia and the Western Provinces, also from Lake Huron to Northern New Brunswick; elsewhere in Canada an excess occurred. Precipitation over the Western Provinces was remarkable, southern districts having more than double the average amount, whilst in northern localities there was a deficiency of from one-third to nearly four times the normal quantity. The rainfall of seven inches at Calgary, which exceeded the average by nearly five inches. Didsbury, 7·09 inches, Lethbridge, 8·60 inches, and Pincher Creek, 9·28 inches were particularly remarkable.

BRIGHT SUNSHINE.

The amount of Bright Sunshine recorded in the Western Provinces during May was only about half the usual amount. Locally in British Columbia and Ontario the amount registered was slightly subnormal, elsewhere an excess of the normal occurred. The extremes of departure from normal value were—21% at Battleford, Sask., and +13% at Montreal, Que.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

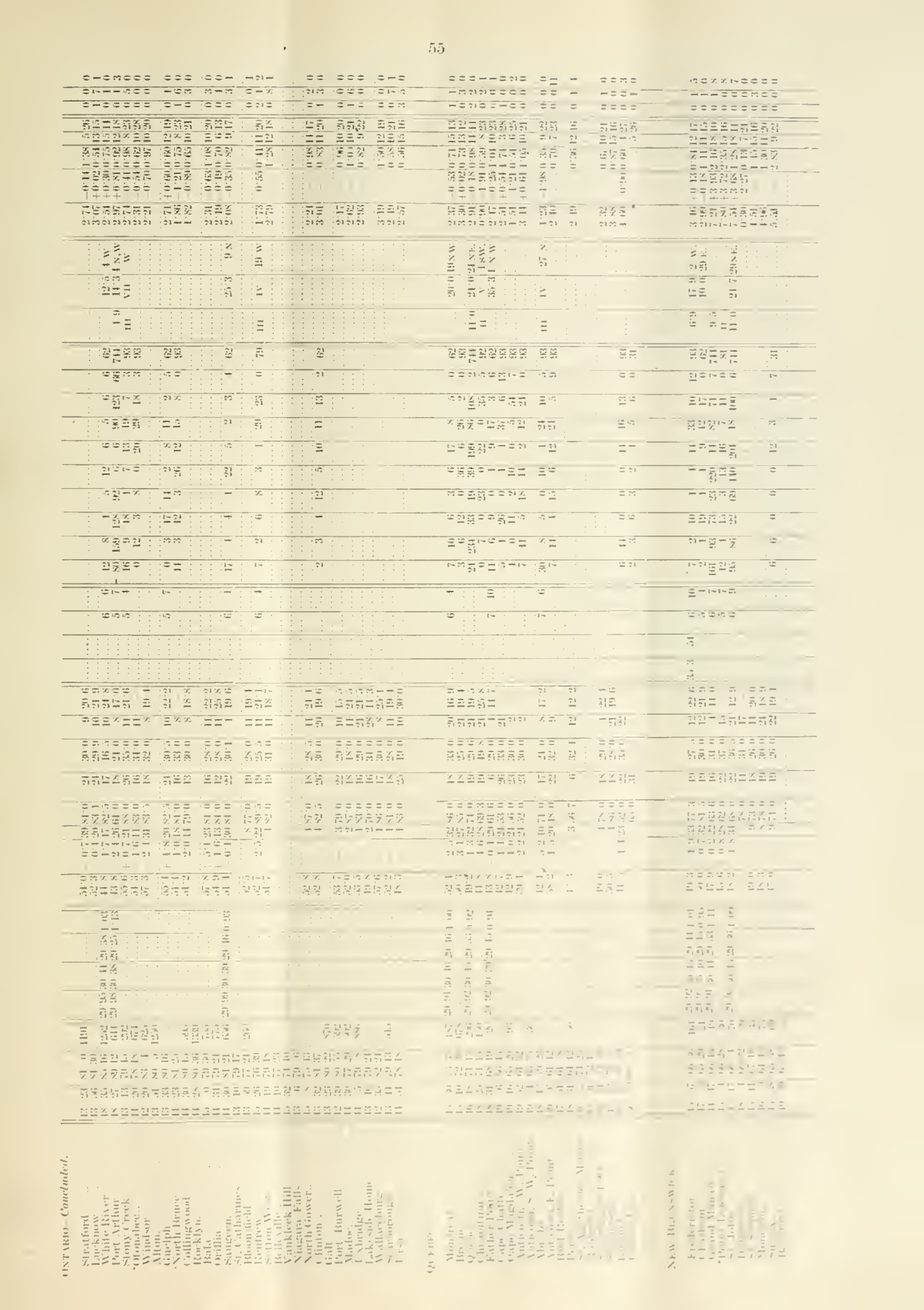
STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms.	No. of fogs.
BRITISH COLUMBIA—				in.	in.	in.	in.	°	°						°																									
Victoria	48	24 123 19	85	29·97	30·27	29·28	0·99	54·5	+ 1·8	15	72·4	8	38·2	5	16·4			7	11	51	74	50	59	95	225	141	37	9	744	8·3	21·0	30 W	1·81	+0·52	0·46	9	18	0	0	1
Barkerville	53	2 121 35	4180	29·93	30·26	29·10	0·86	47·4	+ 2·6	17	70·0	9	22·0	5	25·6			6	5	1	0	0	0	8	3	1	2	47	62		III	21 NW	1·00	+1·62	0·24	10	21	0	0	0
Agassiz	49	14 121 31	52					54·2	+ 0·7	16	82·0	2	32·0	7	24·4			3	1	27	0	0	0	15	0	21	0	0	93				7·10	+2·73	1·19	14	17	0	0	0
Port Simpson	54	34 130 26	26	29·90	30·38	29·23	1·15	50·6	+ 2·2	18	71·9	26	32·4	6	13·6			7	11									11·7	2 W				1·98	−2·69	0·30	15	16	0	0	2
Revelstoke	51	0 118 6	1476					54·0	—	8	80·0	10	28·0	5	24·1					4	0	11	0	8	2	26	0	11	62				2·08		0·61	11	20	0	0	0
Kamloops	50	41 120 29	1193	29·82	30·21	29·26	0·98	59·2	+ 1·5	13	87·6	9	30·9	5	23·9			7	11	2	1	5	2	1	1	2	0	48	62				1·79	+0·71	0·46	15	18	0	0	0
Princeton	49	29 120 29	1650					53·2	—	8	85·0	9	21·0	5	26·4																		3·27	—	0·66	16	15	0	4	0
Pilot Bay	49	39 116 55	2000																																					
Rivers Inlet	51	39 127 19	20	29·99	30·37	29·30	1·05	51·3	+ 1·5	13	66·1	28	33·8	4	15·8		88	6	5	0	2	3	1	0	6	40	3	38	93	11	1V	11 SW	1·89	−3·75	0·40	13	18	0	0	7
Stuart's Lake	54	28 124 12	2280					47·1	+ 3·3	13	77·0	24	17·7	7	25·7																		0·33	0·67	0·08	6	25	0	0	0
Coldstream	50	14 119 15	1246					55·1	+ 1·1	11	87·0	10	26·0	4	22·3																		2·25	+1·10	0·56	14	17	0	0	0
a Nanaimo	49	10 123 57		29·84	30·17	29·16	1·01	53·7	—	7	75·4	9	36·0	6	19·0		8	5	3	4	13	5	18	1	1	11	18	22	93				3·12	+1·79	1·48	15	16	0	0	0
Chilliwack	49	10 131 57	21	29·94	30·24	29·25	0·99	55·4	—	9	81·6	8	35·3	6	18·5			7	10	0	4	13	10	31	29	1	2	0	93				4·52	+0·33	0·80	13	18	0	0	0
Winter Harbor	50	32 128 3						49·8	—	9	63·0	10	36·0	7	12·1																		3·06		0·81	12	19	0	0	0
Midway	49	0 118 46	1800																																					
Nicola Lake	50	9 120 39	2120					51·6	0·0	11	80·0	10	27·0	5	22·3																		2·37	+1·07	0·48	11	20	0	0	0
Salmon Arm	50	42 119 18	1152					56·3	—	5	82·0	9	30·5	5	22·4																		1·97		0·39	11	17	0	3	1
Garry Point	49	21 123 17						52·5	+ 0·4	11	66·0	8	32·5	6	14·2																		2·75	+0·34	0·57	11	20	0	0	0
Tobacco Plains	49	1 115 5	2684					53·3	0·0	11	87·1	11	29·0	5	21·5																		3·75	+1·76	0·94	12	19	0	2	1
a Vancouver	49	17 123 5	136					53·9	—	7	75·9	9	34·5	1	18·3		73	6	10	0	3	12	10	6	11	9	7	1	62	4·0	7·0	28 SW	3·58		0·82	15	15	0	2	0
New Westminster	49	13 122 54	330	29·96	30·23	29·30	0·93	54·6	+ 0·6	12	79·2	8	35·3	5	18·1			6	12	2	1	21	1	6	14	3	1	13	62		10·7	26 S	3·40	−0·20	0·61	13	18	0	1	0
Ladner	49	5 123 4						55·6	—	7	78·0	11	34·0	6	25·0																		3·07		0·55	9	22	0	0	0
North Nicomen	49	12 122 2	59					55·8	+ 1·1	14	80·0	8	37·0	6	19·0																		1·34	−0·85	1·19	13	16	0	3	1
Quesnelle	52	59 122 30	1700					55·3	+ 4·1	11	82·0	11	23·0	5	32·7																		0·46	−0·28	0·30	3	22	0	1	4
Clayoquot	49	11 125 4	40					54·2	—	8	69·0	29	37·0	5	17·3																		2·15		0·93	10	21	0	0	0
Cranbrook	49	30 115 50	2900																																					
Massett	53	58 132 9	30					53·7	—	9	66·0	22	40·0	7	17·1					7	6	7	10	0	2	26	4	0	62				0·90	—	0·25	4	27	0	0	0
Bullion	52	45 121 55	2775					51·1		9	80·0	8	22·0	4	28·7																		1·26		0·48	8	23	0	0	0
Bella Coola	52	40 126 54	150																																					
Cowichan	48	25 123 42	170					52·2	—	3	73·9	9	33·2	5	18·4																		2·07		0·41	13	16	0	0	0
Nelson	49	29 117 21	1760					54·9	—	6	77·0	10	30·0	5	22·4																		1·88		0·40	15	16	0	1	0
Okanagan Mission	49	52 119 29	1200					57·0	—	8	82·2	9	25·6	5	25·2																		2·04		0·81	13	17	0	0	0
Alberni	49	15 124 49	200					51·8	+ 2·0	12	85·2	9	31·9	7	26·0																		3·10	0·0	0·67	11	17	0	1	0
Kuper Island	48	54 123 38	40																																					
Cape Scott	50	48 128 27						48·8	—	8	60·0	26	34·8	17	9·0																		3·22	—	1·12	11	17	0	0	0
Glacier	51	14 117 29	4072																																					
Golden	51	16 116 55	2550					51·9	—	5	80·0	10	23·0	5	28·5																						4	—	0	0	0
Spence's Bridge	50	25 121 30	760																																					
Bamfield	48	50 125 9		29·96	30·27	29·23	1·04	52·1	—	3	68·5	31	38·6	24	18·9																		1·02		0·14	15	16	0	0	1
Big Creek	51	40 123 0						48·5	—	3	79·0	30	21·0	5	28·0					5	2	27	16	2	0	21	0	20	93				2·61	—	0·90	15	16	0	1	0
Nickel Plate	49	30 120 0	5400					41·6	—	3	69·0	8	24·0	16	19·3																		7·53	—	1·40	14	17	0	1	0
Thetis Island	49	0 123 40						53·1	—	3	69·3	28	37·8	7	16·2																		3·02	—	1·21	13	18	0	1	0
Hedley								54·2	—	3	83·0	9	33·0	5	23·6																		3·47	—	0·70	13	17	0	0	1
Kitatoaat	53	59 128 42																																						
Rossland	49	5 117 48	3400					49·3	—	3	80·0	9	29·5	5	8·0																		4·75	—	1·30	14	17	0	2	0
*Port Essington	54	9 129 55	10																																					
Atlin	59	35 133 38		29·99	30·37	29·06	0·71	45·0	—	1	70·0	24	21·5	8	20·3			6	4	2	2	1	2	25	1	3	2	24	62				0·25	—	0·16	3	25	0	0	0
Athalmur								52·4	—	1	83·0	11	29·0	5	26·8																		2·72		0·75	10	21	0	0	0
Fairview			1300								88·0	10																					3·63	—	1·12	12	19	0	0	0
YUKON :—																																							
a Dawson	64	4 139 20	1200																																					
White Horse	60	45 135 0	2075					45·2	—	2	72·0	25	18·0	7	22·3																		0·65	—	0·65	1	30	0	2	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

| STATION. | Latitude N. | Longitude W. | Elevation above sea level, in feet. | PRESSURE. | | | | TEMPERATURE. | | | |



PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE.				TEMPERATURE.								Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM									VELOCITY OF WIND.			PRECIPITATION.			Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	Mean miles per hour.	Highest day's velocity.	Date and direction from.	Amount.	Difference from average.	Heaviest fall in month.				
NOVA SCOTIA—																																				
Halifax	44 39	63 36	88	29·94	30·39	29·53	0·86	49·8	+ 1·0	32	70·0	31	33·5	4	17·1	...	...	...	...	73	185	8	31	138	118	71	95	63	741	9·6	20·0	22 NE	6·20	+2·00	1·47	14	16	0	0	6
Sydney	46 10	60 10	35	29·92	30·10	29·41	0·99	45·0	1·1	33	71·5	6	30·1	17	15·0	...	...	7·8	19	154	26	27	42	98	131	52	81	133	744	3·2	12·7	22 N	5·80	+2·16	1·68	18	13	0	0	4
a Truro	45 22	63 18	...	29·85	30·29	29·29	1·00	47·7	...	...	74·8	6	25·5	23	20·2	...	...	7	7	13	12	3	8	8	29	7	10	3	91	...	...	...	5·36	...	1·30	12	19	0	1	3
Yarmouth	43 50	66 2	65	29·96	30·47	29·36	1·11	47·8	0·1	...	63·0	19	31·5	12	12·8	...	...	5	7	75	40	48	83	181	48	125	65	9	744	9·0	15·0	1 W	6·23	+2·52	1·96	13	17	0	2	9
a Pictou	45 42	62 41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Port Hastings	45 39	61 22	45	...	...	...	...	47·0	— 0·9	11	66·0	5	32·0	3	16·0	...	...	...	...	7	0	1	1	10	3	3	0	0	31	...	...	...	5·18	+2·91	1·25	8	23	0	1	3
*Whitehead	45 15	61 8	20	...	...	...	...	41·1	— 0·4	23	52·0	11	36·0	23	—	...	...	...	...	16	3	11	13	9	27	6	2	2	93	...	...	...	6·93	+3·86	1·41	10	21	0	0	13
*Sable Island, E. Point	43 58	59 46	25	...	...	...	...	46·7	+ 3·6	24	57·5	27	40·0	16	—	...	...	...	...	13	11	2	12	23	4	21	3	1	93	...	...	...	4·25	+1·71	0·88	12	19	0	1	12
Sable Island, M. Station	43 57	60 6	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parrsboro'	45 23	64 19	40	...	...	...	...	46·4	— 1·9	10	67·0	18	27·0	21	16·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·12	+2·21	0·87	9	22	0	0	0
Wolfville	45 7	64 20	28	...	...	...	...	50·5	—	9	75·0	20	31·0	12	17·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·22	—	1·30	11	20	0	0	0
Bridgetown	44 49	65 16	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Windsor	44 59	64 6	90	...	...	...	...	44·3	—	1	71·0	19	31·0	12	18·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·13	—	1·27	16	15	0	0	0
P. E. ISLAND—																																				
Charlottetown	46 11	63 10	38	29·93	30·32	29·50	0·82	46·8	0·9	31	67·0	19	32·0	17	14·3	...	...	6	11	13	202	6	71	67	177	12	108	88	744	8·3	17·0	30 NW	5·85	+3·07	1·49	15	11	0	1	0
Hamilton	46 25	63 18	...	...	...	...	...	46·6	—	8	71·0	20	33·0	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·10	—	0·87	16	15	0	0	0
Summerside	46 18	63 51	...	...	...	...	...	47·2	—	8	68·0	19	32·0	21	...	...	...	...	...	1	9	0	5	1	10	3	2	0	31	...	...	...	5·27	—	1·20	15	16	0	0	0
NEWFOUNDLAND—																																				
St. John's	47 34	52 42	125	29·88	30·16	29·33	1·13	44·1	+ 0·4	31	68·0	8	31·0	21	15·8	...	...	7	11	12	11	5	2	17	6	8	1	0	62	...	...	...	6·05	+2·60	1·50	18	13	0	0	4
Channell	47 37	59 9	50	...	...	...	...	39·8	— 1·5	2	55·0	23	29·0	5	8·7	...	...	7	8	3	1	0	41	5	0	33	1	0	93	11·0	VI	2 W	6·95	+3·55	2·40	7	24	0	1	6
*Cape Norman	51 38	55 52	...	...	...	...	...	35·5	+ 0·1	24	44·0	6	26·0	1	—	...	...	...	...	1	18	5	24	4	1	22	5	...	93	...	...	...	0·55	— 1·05	0·17	11	20	0	0	8
*Amour Point	51 28	56 51	...	...	...	...	...	37·3	+ 0·9	13	48·0	11	31·0	3	...	...	...	...	...	2	1	11	1	0	7	19	15	7	93	...	...	...	0·95	0·25	0·60	2	29	0	0	6
*Point Rich	50 42	57 25	...	...	...	...	...	38·0	0·7	22	50·0	10	30·0	22	—	...	...	...	...	3	3	21	10	5	22	25	1	0	93	...	...	...	1·86	— 0·68	0·70	6	25	0	0	5
BERMUDA—																																				
Prospect	32 17	64 30	151	30·16	30·49	29·88	0·61	69·2	0·0	15	76·1	28	59·4	12	8·8	...	...	6	1	6	8	6	13	14	10	1	1	0	62	...	25·0	29 SE	2·32	—2·26	1·36	9	22	0	3	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING MAY, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
British Columbia—										
Coquitlam	5·07	7	24	2·22	15—16					
Goldstream Lake	2·01	16	15	0·56	20			....		
Nanaimo City	3·12	9	22	1·63	25			....		
Naas Harbour	2·08	11	20	0·68	1					
Royal Oak	2·10	10	21	0·50	24					
Somas River	2·36	11	20	0·49	26					26. Heavy thunder
Hartly Bay	2·87	9	22	0·97	1					
Alberta—										
Bruederheim	1·62	6	25	0·71	20					
Beaver Hills, W.	1·28	10	21	0·71	15 to 17					¼ in. snow on 17th.
Coutts	1·35	15	16	2·10	28 to 30					
Innisfail	1·70	9	22	1·40	21					
Jumping Pond	6·68	11	17	1·93	22					6 in. snow fell on 29th.
Lacombe	2·93	13	18	1·10	21			....		
Magrath	6·02	15	16	1·09	30			...		Snow on 11th.
Stirling	7·44	16	15	1·92	15 to 17					28th. 3 hours' heavy snow.
Saskatchewan—										
Elm	2·58	8	23	1·10	29					
Insinger	1·53	8	23	0·29	30					
Regina	2·00	16	13	0·73	29			..		
Manitoba—										
Belmont	2·93	17	14	0·74	17					
Beaver	2·12	8	23	1·13	17					
Cartwright	3·18	15	16	0·90	28 29					
Gretna	3·60	10	19	1·04	16					
Rosebank	2·55	8	23	1·16	17			..		
Rapid City	2·91	7	22	1·16	17			...		
Swan Lake	2·62	11	18	0·56	15			...		
Ontario—										
Dutton	1·31	6	25	0·40	26					19—20. Hard frost.
Westport	1·23	9	22	0·41	31					
Ennismore	0·60	2	29	0·50	12					
Wiarton	2·21	7	21	0·71	12					
Wooler	2·81	10	21	0·80	12					
Princeton	3·28	8	23	1·22	26 to 28					
Emsdale	1·08	10	21	0·35	2					
Georgetown	2·09	11	19	0·42	2					Aurora 18, 19, 20.
Lansdowne	0·75	5	26	0·38	9					
Aurora	3·92	11	20	1·01	17					
Goderich	1·60	5	26	0·80	17					
Watford	2·89	8	23	0·90	17					
Parma	1·98	6	25	0·46	11					
Kisakoyen Lake	2·54	12	19	1·12	17					
Lake Talon	3·58	8	23	1·01	12					
Winces Bay	3·59	8	23	1·05	12					
Turtle Dam	3·54	10	21	1·06	12					
Nasbousing	2·80	10	21	0·76	12					
White Fish	3·14	10	21	1·02	12					
Minards Bridge	3·13	10	21	0·96	12					
Britannia Bay	1·75	12	19	0·36	8					
Sydenham	1·12	4	27	0·37	12					
Westminster	1·11	8	23	0·85	26					
Wyoming	2·45	11	20	0·60	17					
Orangeville	0·46	6	24	0·06	3					3 in. snow during month.
Lion's Head	1·96	5	22	1·22	13					
Montague	1·89	6	25	0·58	17					
Deer Park	1·88	9	22	0·38	20					
Huntsville	1·72	6	25	0·60	12					
Midland	1·80	6	25	0·70	8					
Arden	1·57	11	20	0·39	9					
Croydon	1·11	3	28	0·60	13					
MacCue	2·76	12	19	0·56	8 9					
Strathroy	2·63	10	24	0·67	17					
Winchester Springs	2·24	10	21	1·13	17—18					
Quebec										
Bryson	1·55	5	26	0·40	18					
New Brunswick										
Point Escuminac	1·49	9	22	0·73	29					

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WA ABOVE THE HORIZON IN THE MONTH OF MAY, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	.....	0·12	0·26	0·36	0·31	0·45	0·47	0·50	0·47	0·43	0·45	0·53	0·54	0·55	0·21	.....
Nanaimo	.....	0·27	0·45	0·46	0·53	0·51	0·50	0·52	0·56	0·58	0·56	0·54	0·57	0·56	0·43	.....
Agassiz	.....	0·02	0·25	0·35	0·41	0·47	0·46	0·49	0·41	0·44	0·32	0·32	0·30	0·12	0·01	.....
Medicine Hat	0·01	0·21	0·36	0·42	0·44	0·46	0·48	0·47	0·44	0·39	0·33	0·28	0·27	0·25	0·09	0·01
Battleford	.....	0·13	0·29	0·32	0·35	0·35	0·33	0·28	0·24	0·17	0·27	0·26	0·23	0·22	0·04	.....
Indian Head	.....	0·06	0·20	0·32	0·35	0·43	0·45	0·46	0·48	0·44	0·44	0·42	0·36	0·25	0·04	.....
Brandon	.....	0·03	0·18	0·38	0·61	0·58	0·59	0·71	0·80	0·74	0·62	0·58	0·44	0·32	0·15	.....
Winnipeg	0·05	0·35	0·49	0·59	0·53	0·57	0·58	0·63	0·56	0·57	0·56	0·49	0·46	0·41	0·26	0·03
Woodstock	.....	0·12	0·35	0·40	0·51	0·59	0·58	0·62	0·72	0·71	0·67	0·65	0·58	0·40	0·12	.....
Toronto	.....	0·09	0·36	0·51	0·62	0·70	0·68	0·63	0·68	0·69	0·65	0·63	0·58	0·38	0·00	.....
Lindsay	0·02	0·16	0·27	0·42	0·57	0·58	0·61	0·61	0·62	0·57	0·54	0·49	0·47	0·38	0·34	0·11
Barrie	.....	0·17	0·41	0·54	0·67	0·67	0·65	0·67	0·65	0·62	0·69	0·57	0·55	0·50	0·17	0·01
Kingston	0·02	0·25	0·48	0·62	0·65	0·66	0·68	0·68	0·70	0·58	0·63	0·64	0·54	0·39	0·19	.....
Ottawa	.....	0·22	0·38	0·44	0·52	0·47	0·54	0·64	0·62	0·56	0·57	0·55	0·46	0·41	0·14	.....
Montreal	.....	0·15	0·44	0·58	0·59	0·55	0·50	0·51	0·54	0·58	0·54	0·51	0·47	0·39	0·08	.....
Quebec	.....	0·14	0·35	0·41	0·51	0·56	0·51	0·57	0·52	0·56	0·47	0·43	0·37	0·38	0·20	.....
Fredericton	.....	0·25	0·36	0·34	0·44	0·46	0·45	0·53	0·59	0·64	0·65	0·60	0·49	0·42	0·42	0·02

	Victoria.	Nanaimo.	Agassiz.	Medicine Hat.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Kingston.	Ottawa.	Montreal.	Quebec.	Fredericton.
Mean proportion for month. (*Constant sunshine being 1.*)	0·38	0·46	0·29	0·32	0·26	0·31	0·44	0·46	0·49	0·49	0·46	0·51	0·52	0·44	0·64	0·40	0·45
Difference from average	+0·02	—	0·01	—	−0·21	−0·17	−0·04	−0·07	+0·06	+0·01	−0·01	+0·05	+0·01	+0·05	+0·13	—	+0·01
Maximum daily amount	0·88	0·91	0·79	0·84	0·85	0·77	0·82	0·91	0·90	0·83	0·98	0·91	0·90	0·88	0·98	0·88	0·93
Date	5	4	8	19	10	9	26	26	20	22	29	29	29	29	14–21	21	31
No. of days completely clouded	5	6	9	10	17	9	0	3	5	2	2	1	3	5	3	4	7

Thunder recorded on :—

1. Yarmouth, Sable Island, Ursa, Tobacco Plains.

2. Gravenhurst, Port Stanley, Parry Sound, Brome, Beatrice Owen Sound, Madoc, Scarboro, Sutton, Lucknow, Uplands, Bala, Stony Creek, N. Bruce, Clontarf, Peterboro, Agincourt, Brantford, Port Dover, Calvin, Meaford, Bruce Mines, Cockburn Island, Strathroy, Lindsay, Orillia, Princeton, Emsdale, Georgetown, Wyoming, Lion's Head, Huntsville.

3. Yarmouth, Montreal, Sutton, Paris, Oakbank, Foxleigh, Arden.

4. Gravenhurst, Stony Creek, N. Bruce.

5. Welland.

6. Swift Current, Lloydminster.

7. Chaplin.

8. Morden, Norquay, Truro.

9. Port Stanley.

10. Rossland, Tobacco Plains.

11. Bermuda, Savanne, Point Clark, Nelson, Rossland, Westport, Salmon Arm, Nickle Plate.

12. London, Gravenhurst, Renfrew, Ottawa, Saugeen, Kingston, Port Stanley, Parry Sound, Brome, Beatrice, Owen Sound, Clinton, Madoc, Ursa, Lucknow, Uplands, Bala, Wiarton, Clontarf, Welland, Peterboro, Collingwood, Agincourt, Birnam, Calvin, Lion's Head, Montague, Huntsville, Midland, Strathroy, Haileybury, Meaford, Bruce Mines, Morden, Lindsay, Orillia, Wooler, Emsdale, Georgetown.

13. Parry Sound, Chicoutimi, Sutton, Lucknow, Peterboro, Point Clark, Meaford, Princeton, Parma, Arden, Croydon.

14. Kenora, Morden.

15. Qu'Appelle, Savanne, Hillview, Carberry, Oakdale Park, Almasippi, Oakbank, Foxleigh, Estevan, Belmont.

16. Barnardo, Scarboro, Stony Creek, N. Bruce, Agincourt, Point Clark, Brantford, Cockburn Island, Oakdale Park, Oakbank, Gretna, Lion's Head.

17. London, Gravenhurst, Port Arthur, Port Stanley, Scarboro, Sutton, Kenora, Lucknow, Uplands, Stony Creek, N. Bruce, Agincourt, Savanne, Point Clark, Port Dover, Birnam, Meaford, Morden, Oakbank, Regina, Belmont, Princeton, Georgetown, Aurora, Westminster, Wyoming.

18. Vancouver, London, Guelph, Quebec, Bermuda, White River, Ottawa, Parry Sound, Kamloops, Shawinigan Falls, Clarke City, Brome, Owen Sound, N. Gower, Madoc, Ursa, Scarboro, Stony Creek, N. Bruce, Peterboro, Collingwood, Agincourt, Port Hope, Paris, Point Clark, Brantford, Port Dover, Calvin, Meaford, Thetis Island, Princeton, Orillia, Westport, Wiarton, Wooler, Emsdale, Georgetown, Aurora, Westminster, Wyoming, Strathroy, Fredericton, Salmon Arm.

19. Vancouver, Macleod, Quebec, Chatham, Grand Manan, New Westminster, Bermuda, Didsbury, Gleichen, Hillsdown, Knee Hill, Threehills Creek, Wetaskiwin, Pekisko, Bathurst, Perce, Summerside, Sutton, Gray Hill, Alix, Arden.

20. Charlottetown, Battleford, Medicine Hat, Swift Current, Wetaskiwin, Channel, Gray Hill, Alix, Chaplin, Princeton, Midland.

21. Salmon Arm.

22. Gravenhurst, Beatrice, Peterboro, Port Hope, White Horse, Lion's Head.

23. Calgary, Port Stanley, Parry Sound, Madoc, Ursa, Uplands, Bala, Agincourt, N. Nicomen, Lindsay, Westport, Wooler, Emsdale, Georgetown, Aurora, Deer Park, Huntsville, Arden, Croydon.

24. London, Scarboro, Agincourt, Brantford, White Horse, Emsdale, Georgetown, Wyoming, Deer Park.

25. Saugeen, Madoc, Scarboro, Peterboro, Agincourt, Lindsay, Arden.

26. Port Stanley, Chicoutimi, Port Hastings, Sutton, Lucknow, Agincourt, Paris, Brantford, N. Nicomen, Princeton, Lindsay, Alberni, Westport, Wooler, Princeton, Georgetown, Wyoming, Deer Park, Strathroy.

27. N. Nicomen, Princeton, Westport, Arden.

28. Arden.

29. N. Bruce, Norquay.

30. Port Stanley, Scarboro, Lucknow, Birnam, Morden Norquay, Georgetown.

31. Gravenhurst, Saugeen, Beatrice, Owen Sound, Ursa, Uplands, Collingwood, Port Hope, Point Clark, Bancroft, Calvin, Meaford, Quesnel, Orillia, Westport, Wiarton, Emsdale, Lion's Head, Midland.

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

10. Fort Vermilion.

12. Clinton.

14. Savanne.

16. Aweme, III ; Waitefield, IV.

17. Savanne, Waitefield, IV.

18. Renfrew, IV ; Ursa, Waitefield, IV ; Rapid City.

19. Gravenhurst, II ; Renfrew, III ; Prince Albert, I ; Quebec, III ; Rockcliffe, IV ; Parry Sound, IV ; Ursa, Kenora, I ; Lucknow, IV ; N. Bruce, Cottam, Brantford, Aweme, II ; Waitefield, IV ; Chaplin, IV ; Grenfell, Cartwright, II ; Rapid City, Huntsville, III ; Haileybury, II ; Fort Vermilion.

20. Quebec, III ; Montreal, IV ; Port Stanley, III ; Cape Chatte, Ursa, Savanne, Birnam, III ; Aweme, II ; Cartwright, I ; Rapid City.

22. Fort Vermilion.

23. Prince Albert, I.

24. Prince Albert, II ; Kenora, III ; Waitefield, IV.

25. Waitefield, IV.

26. Waitefield, IV.

27. Savanne, Waitefield, IV.

FORECASTS FOR MAY, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1253. These were divided as follows :—

District.	No. Issued.	Verified.		
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	84	57	21	6	80·3
Saskatchewan	84	64	16	4	85·7
Manitoba	86	60	13	13	77·3
Lake Superior	111	68	32	11	73·7
Lower Lake Region	120	92	20	8	85·0
Georgian Bay	120	89	21	10	82·9
Ottawa Valley	99	82	14	3	89·9
Upper St. Lawrence	99	81	15	3	89·4
Lower St. Lawrence	113	85	16	12	82·3
Gulf	113	80	22	11	80·5
Maritime Provinces, West	111	81	22	11	82·9
Maritime Provinces, East	110	82	20	8	83·6
Total	1253	921	232	100	82·8

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
27th June, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXX. JUNE, 1906. No. 6.

TORONTO

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia did not depart much from the normal but in most districts it was slightly cooler and wetter than usual. Over the lower mainland and islands much dull weather with frequent rain was reported from the 3rd to 6th, 11th to 18th, and rain occurred occasionally after the latter date. Over the upper mainland the dates of wet periods were almost coincident with those mentioned, but at most places much rain also fell between the 25th and 29th. In districts near the coast the temperature remained remarkably steady but some warm days occurred on or about the 2nd and 22nd to 25th. The condition of vegetation was normal.

In the Western Provinces the weather was unusually dry in some portions of Alberta and exceedingly wet elsewhere, rain occurring frequently between the 3rd and 21st, also on or about the 28th and 30th. Much cloudiness prevailed and the proportion of bright sunshine was below the average. The mean temperature did not depart much from the average, but in many places in Alberta it was somewhat in excess whilst in other districts it was slightly below. Quite warm weather occurred during the first four days, also on or about the 9th to 12th, 23rd to 27th and 30th. Vegetation made rapid progress and on the 30th, it was more forward than usual.

The weather in Manitoba was exceedingly wet and somewhat warmer than usual. The sky was frequently overcast, and there was less bright sunshine than usual, rain occurring chiefly from the 3rd to 9th and occasionally from the 16th to 30th. Temperatures exceeding 80 degrees were of frequent occurrence at many places from the 1st to 5th, 10th to 17th and 25th to 28th. Thunderstorms with high winds were somewhat unusual in their frequency but comparatively little damage was caused thereby. Growth in vegetation was exceedingly rapid.

In Ontario the weather was characterised by an almost phenomenally heavy rainfall and the unusually large number and importance of the thunderstorms, loss of life and destruction of property being reported from several districts. Somewhat higher temperatures than usual also prevailed. High temperatures were general from the 2nd to 10th, 14th to 16th, 18th, 19th and 26th to 29th, 80 degrees being frequently exceeded during these periods, and 90 degrees being recorded at several stations. The proportion of bright sunshine was below the average and rain was of frequent occurrence from the 4th to 10th, 16th to 23rd and 28th to 30th. Light frost was reported from a few northern stations on or about the 12th. On the 30th plant life was more advanced than usual.

In the Province of Quebec the weather was somewhat cool excepting at a few places in the western portion where on the contrary the mean temperature slightly exceeded the average. Comparatively warm periods occurred, however, from the 2nd to 4th, 9th, 10th, 13th to 22nd and 26th to 30th. The rainfall though heavy at Montreal and Brome was light elsewhere the chief falls occurring on or about the 1st, 5th to 10th and 26th to 29th. Much bright sunshine was recorded between the 11th and 21st. Light frost occurred at several places on or about the 12th. Vegetation was somewhat backward.

The weather in New Brunswick did not depart much from the normal excepting in the more southern portion where the rainfall was somewhat heavy. During the first ten days it was mostly cool and unsettled, rain occurring occasionally; and there was also heavy rain on or about the 23rd, 24th and 25th. During the intervening periods there was much fine weather and the mean proportion of bright sunshine exceeded the average. Light frosts were general on or about the 12th. On the 30th vegetation was backward.

In Nova Scotia the weather was somewhat cool and wet in most localities, and although rain was of frequent occurrence during the first ten and days also on or about the 24th, 25th and 30th, there was much bright sunshine with high temperatures between these dates. Warm weather also prevailed between the 27th and 30th. Frost was recorded at many places on or about the 12th. The condition of vegetation was slightly below the normal.

The weather in Prince Edward Island was mostly cool and wet, much rain occurring during the first eleven or twelve days, also from the 22nd to 30th, and exceeding the average quantity considerably. Comparatively fine warm weather occurred between the 12th and 21st and there were high temperatures during the last three or four days. Growth in plant life was backward.—F. F. Payne.

ATMOSPHERIC PRESSURE.

Pressure was below the average amount in almost all portions of the Dominion, the negative departures ranging from .11 of an inch at Minnedosa and .07 at Edmonton to just the average at Quebec, Father Point and Chatham, N.B.

HIGH AREAS.

Six areas of high pressure were charted during the month and there were a few other areas of still less importance which have been omitted. The areas traced conformed largely to the summer type, being of feeble energy. The system which drifted over Canada between the 10th and 14th was probably the most pronounced, being attended by quite cool conditions, light local night frosts occurring in northern localities.

LOW AREAS.

Nine areas of low pressure were sufficiently well marked to allow of their paths being fairly accurately charted and there were other feeble sporadic depressions which have not been considered.

A remarkable area of depression which seemingly originated in the western portion of the United States passed into the Canadian Western Provinces on the 7th, when the barometer reading reduced to sea level was 28·76 inches. This important system caused excessive rainfalls and exceptionally severe thunderstorms as well as heavy winds from the Rockies to Manitoba.

Another remarkable area appeared in the Gulf of St. Lawrence on the 14th, but where originating it is not possible to say until more reports have been received. It gave a gale of great violence over Newfoundland also local gales on our Eastern shores.

These were the two most marked depressions of the month, but the areas generally were noticeable for the numerous and heavy thunderstorms by which they were so frequently accompanied.

WINDS.

In British Columbia on Vancouver Island and over the Mainland the south and west directions predominated with nine days with strong and eleven with fresh breezes.

In Alberta and Saskatchewan the direction was largely variable but favouring somewhat the south and west. There were ten days with strong and fourteen with fresh breezes and two gales.

In Manitoba the direction was variable with eight days with strong and five with fresh breezes and two gales.

In the Lake Region the winds were for the most part light to moderate and variable; on nine days fresh breezes prevailed and on four strong. At Pelee Island on the 9th, and again on the 13th, the wind attained to the force of a moderate gale.

In the Ottawa and Upper St. Lawrence Valleys light to moderate variable winds predominated; on three occasions strong breezes prevailed and on eleven fresh.

In the Lower St. Lawrence Valley and the Gulf the direction was variable. There were thirteen days with strong and ten with fresh breezes. Local moderate gales were felt between the 12th and 14th.

In the Maritime Provinces the direction was variable with four days with strong and fifteen with fresh breezes, and on the 14th local gales were experienced on the Cape Breton Coast.

TEMPERATURE.

The temperature was above the average in all portions of the Dominion except over the mainland of British Columbia and the larger portion of the Maritime Provinces. The positive departures, however, nowhere exceeded 2 or 3 degrees or the negative departures 2 degrees.

The Highest and Lowest temperatures in each Province during June, 1906, were :

British Columbia,	93° ·6 on 24th at Kamloops,	26° ·0 on 14th at Nickel Plate.
Alberta,	84° ·0 on 27th at Medicine Hat,	22° ·0 on 2nd at Red Deer.
Saskatchewan	89° ·0 on 12th at Swift Current,	31° ·0 on 21st at Manor.
Manitoba,	87° ·0 on 5th at Aweme,	29° ·0 on 22nd at Virden.
Ontario,	96° ·0 on 29th at Stony Creek,	26° ·0 on 11th at Ursa.
Quebec,	95° ·1 on 20th at Chicoutimi.	32° ·0 on 12th at Brome.
New Brunswick,	90° ·0 on 22nd at Dalhousie,	32° ·0 on 15th at Moncton.
Nova Scotia,	86° ·0 on 27th at Port Hastings,	27° ·8 on 16th at Truro.
Prince Edward Island,	78° ·0 on 30th at Hamilton,	35° ·0 on 8th at Hamilton.

PRECIPITATION.

The month was remarkable for the excessive rainfall which occurred over a large portion of the Dominion especially in Saskatchewan, Manitoba and Ontario and locally in Quebec and the Maritime Provinces. Considering the conditions in Provinces separately the average was exceeded in some localities in British Columbia, whereas in others it was not maintained. In Alberta a negative departure appears to have been general varying from one-tenth at Medicine Hat to one inch and one-tenth at Edmonton. In Saskatchewan, Prince Albert is the only station reporting a negative departure, whereas at Swift Current it was four and a half inches above the usual amount. In Manitoba it was from two to three inches above average ; over the large portion of Ontario it was from three up to as much as six inches in excess of the average. In the extreme western part of Quebec it was three-quarters to two inches above, but in the Province generally about an inch below the average. In the Maritime Provinces it was two to three and a half inches above in Prince Edward Island and Cape Breton, while elsewhere, as a rule it was not up to the average. Halifax recorded a negative departure of two and a quarter inches. Sussex, two inches and Yarmouth, one inch.

BRIGHT SUNSHINE.

Bright sunshine was below the average amount over the larger portion of Ontario and over the Western Provinces elsewhere it was generally about the average or slightly above. The chief negative departures were at Battleford, Toronto and Lindsay and the chief positive departure was reported at Fredericton. The per centage of the possible amount registered ranged from 56 and 55 at Woodstock, Ont. and Fredericton, N.B. to 26 at Battleford.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms.	No. of fogs.
				in.	in.	in.	in.																																	
BRITISH COLUMBIA																																								
Victoria	48 24	123 19	85	29·90	30·40	29·46	0·94	58·5	− 1·9	14	77·5	21	42·1	14	17·3			5	1	12	50	36	64	91	171	188	66	9	720	9·3	17·9	21 SW	0·65	− 0·24	0·10	14	15	0	0	0
Barkerville	53 2	121 35	4180	29·90	30·32	29·16	0·86	48·2	− 2·3	18	82·0	24	30·0	30	21·1			7	12	0	0	0	0	7	0	1	0	52	6				3·00	− 0·54	0·36	19	11	0	0	0
Agassiz	49 14	121 31	52					58·5	− 1·4	17	84·0	24	38·0	29	24·4			3	0	36	0	0	0	39	0	15	0	0	90				6·40	+ 1·31	0·80	19	11	0	0	0
Port Simpson	54 34	130 26	26	29·90	30·33	29·33	1·00	53·0	− 0·2	20	69·3	30	42·0	8	15·1			7	6	4	0	29	1	7	2	19	0	1	60		8·8	25 SW	5·42	− 1·06	0·78	25	6	0	0	0
Revelstoke	51 0	118 6	1476					56·1		5	85·0	23	36·	8	21·6																									
Kamloops	50 41	120 29	1195	29·82	30·30	29·10	0·90	63·2	− 0·4	15	93·6	21	41·6	19	25·0			5	7	2	0	9	3	1	3	1	0	38	60		12·0	1 SE	1·49	+ 0·13	0·37	10	18	0	0	0
Princeton	49 29	120 29	1650					55·7	0·7	10	89·0	24	31·0	14	28·6											....							1·66	+ 0·63	0·36	13	19	0	1	0
Pilot Bay	49 39	116 55	2000																																					
Rivers Inlet	51 39	127 19	20	29·94	30·11	29·52	1·12	53·1	− 0·9	12	89·1	2	39·9	10	15·5		91	7	5	0	1	10	4	0	0	11	0	34	90	1	19	23 W	5·19	− 0·13	0·19	20	16	0	0	0
Stuart's Lake	54 28	124 12	2280					50·3	0·6	13	81·0	3	24·2	2	33·9																			1·71	+ 0·28	0·38	12	18	0	1	0
Coldstream	50 14	119 15	1246					59·7	0·3	12	90·0	25	37·0	17	25·9																			0·19	− 0·51	0·05	12	18	0	0	0
a Nanaimo	49 10	123 57		29·84	30·27	29·37	0·90	55·6		8	80·9	24	38·1	11	19·8		84	6	3	3	8	10	24	3	1	3	9	26	90	5·8	—	—	2·32		0·54	17	13	0	0	0
Chilliwack	49 19	121 57	21	29·97	30·40	29·50	0·90	58·7	2·0	10	86·1	24	42·0	10	17·9			7	5	4	1	11	11	19	20	12	6	0	90				1·09	+ 0·10	0·32	20	10	0	0	0
Winter Harbor	50 32	128 3						53·4	0·1	10	68·0	3	40·0	1	13·8																			9·28	3·70	1·30	21	9	0	0	0
Salmon Arm	51 0	119 35	1215					59·5		5	91·0	24	41·0	5	25·0																			2·59		0·81	18	12	0	1	0
Nicola Lake	50 9	120 39	2120					55·2	1·8	11	83·0	25	36·0	10	21·9																			1·36	+ 0·05	0·25	8	22	0	0	0
West Kootenay	49 29	117 50																																						
Garry Point	49 21	123 17						56·1	− 0·7	11	80·0	24	39·0	6	17·2																			1·77	− 0·35	0·36	13	17	0	0	0
Tobacco Plains	49 1	115 5	2681					59·6	+ 1·2	11	88·1	27	38·0	2	24·8																			2·72	+ 0·28	0·55	13	16	0	5	0
a Vancouver	49 17	123 5	136	29·97	30·40	29·51	0·89	56·9		7	81·3	2	40·1	10	20·0			6	7	0	1	15	7	7	9	9	5	1	69				3·01		0·46	18	8	0	3	0
New Westminster	49 13	122 51	330	29·96	30·37	29·51	0·86	57·6	− 1·9	12	83·3	24	41·1	10	18·7			6	8	0	2	21	7	8	13	3	4	6	60	5·1			3·38	0·75	0·41	16	12	0	1	0
Ladner	49 5	123 4						56·0		9	85·0	23	35·0	13	26·0																			1·29		0·30	5	25	0	0	0
North Nicomen	49 12	122 2	59					58·6	− 0·6	14	85·0	24	42·0	10	18·7																			4·77	0·34	0·92	18	11	0	3	0
Quesnelle	52 39	122 30	1700					57·2	− 1·0	12	92·0	24	34·0	8	30·5																			0·62	+ 0·03	0·32	10	16	0	1	0
Clayoquot	49 11	125 17	40					56·0		8	72·0	21	41·0	1	16·9																			9·56		1·51	17	13	0	0	0
Cranbrook	49 30	115 50	2900																																					
Massett	53 58	132 9	30					56·1		9	67·0	16	45·0	21	17·1																			3·16		0·70	18	12	0	0	0
Bullion	52 45	121 55	2275					53·4	—	9	89·0	24	32·0	8	25·3																			3·26	—	0·59	18	12	0	0	0
Bella Coola	52 40	126 54	150					56·1		9	80·0	3	39·0	10	21·4																			1·91		0·60	14	16	1	0	0
• Cowichan	48 25	123 42	170					54·5		3	77·9	24	38·9	16	19·0																			2·15		0·55	16	14	0	0	0
Nelson	49 29	117 21	1760					59·0	—	5	86·0	24	38·0	8	25·9																			2·76	—	0·65	15	15	0	1	0
Matsqui	49 7	122 16																																						
Okanagan Mission	49 52	119 29	1200					56·8		8	87·8	25	38·0	5	21·6																			2·07		1·09	14	14	0	0	0
Alberni	49 15	124 49	300					56·9	− 3·3	12	88·2	24	36·0	10	24·2																			4·72	+ 2·28	0·93	22	8	0	0	0
Kuper Island	48 58	123 38	10																																					
Cape Scott	50 48	128 27						52·3		8	63·0	3	39·3	10	11·4																			6·06		1·09	21	6	0	0	3
Glacier	51 14	117 29	4072																																					
Golden	51 16	116 55	2550					55·5	—	5	86·0	26	33·0	6	25·6																			—	—	—	1	26	0	1	0
Spence's Bridge	50 25	121 30	760																																					
Bamfield	48 50	125 9		29·97	30·32	29·60	0·72	54·0	—	3	69·2	1	40·0	1	14·5			6	7	0	3	16	31	9	0	14	0	26	50				2·78	—	0·59	16	17	0	0	0
Big Creek	51 40	123 0						50·6	—	3	85·0	23	27·0	5	30·0																			1 1	—	0·25	10	20	-	2	0
Nickel Plate	49 30	120 0	5400					44·4	—	3	78·0	30	26·0	14	20·1																			3·51	—	0·85	15	15	0	0	0
Thetis Island	49 0	123 40						55·1		1	76·5	24	39·6	7	18·8																			1·70	—	0·34	17	12	0	1	0
Hedley								56·3	—	3	87·0	25	36·0	9	23·7																			2·25	—	1·00	16	11	0	0	0
Kitamaat	53 59	128 42						51·4	—	3	67·0	11	37·0	11	18·2					8	0	1	5	9	1	2	0	1	30				2·93	—	0·62	10	20	0	1	0
Rossland	49 5	117 48	3100																																					
*Port Essington	54 9	129 55	10																																					
Atlin				29·87	30·27	29·43	0·84	49·3	—	1	67·5	2	32·0	15	19·1			7	6	2	1	2	3	21	0	1	0	25	60				1·71	—	0·49	16	14	0	1	0
Athalmur								58·9	—	1	89·0	6	30·0	7	31·1																			1·99	—	1·11	7	23	0	0	0
YUKON :—																																								
a Dawson	64 4	139 20	1200																																					
White Horse	60 15	135 0	2075					50·7	—	2	78·0	4	28·5	27	23·1			...																1·78	—	0·26	11	19	0	1	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA—*Con.*	° ′	° ′		in.	in.	in.	in.	°	°																																
Oakbank	49 57	96 42	710					62·5	+ 2·5	11	81·5	14	43·0	2	22·5					3	6	0	5	5	4	2	5	0	30				6·02	+2·88	2·13	10	18	0	4	0
Oakdale Park	49 11	100 18						59·9	—	2	79·0	14	29·0	9	21·7																				7·41	—	2·21	12	18	0	2	0
Pipestone	49 31	100 58	1400					61·6	—	7	83·0	14	38·0	22	22·8																				5·61	—	3·39	9	22	0	0	0
Portage la Prairie	49 57	98 17	830					61·8	+ 0·1	9	80·5	14	43·0	21	20·8																				1·25	+0·90	1·40	14	16	0	0	0
Pierson	49 11	101 15	1531																																						
*a*St. Albans (Awenue)	49 12	99 33	1180	28·59	28·97	27·54	1·43	61·6	+ 1·8	21	87·0	5	40·5	22	26·4																				2·53	−0·87	1·06	14	16	1	0	0
Stony Mountain	50 4	97 11	803	29·67	30·07	28·80	1·27	63·3	+ 2·0	25	84·0	15	41·0	2	22·5				5	4	4	5	8	10	6	12	2	8	5	60	11	IV	6 E	6·23	+3·14	2·70	11	19	0	4	0
Treherne	49 36	98 40	1212					58·8	— 0·8	11	80·0	13	40·0	4	23·8																				0·80	—	0·50	2	28	0	1	0
Virden	49 51	100 55	1444					55·5	—	1	81·0	14	29·0	22	29·7																				7·40	—	4·00	6	21	0	0	0
Winnipeg	49 53	97 7	760	29·80	31·22	28·95	1·27	63·7	+ 1·7	33	84·8	11	42·2	1	22·6		72	6	5	10	4	7	4	12	2	7	1	13	60	12·2	36·7	21 N	6·30	+2 86	1·71	13	12	0	7	0
ONTARIO—																																									
Haileybury	47 29	79 39	687	29·88	30·38	29·78	0·80	64·2	+ 2·8	13	84·8	15	31·6	12	22·8			6	3	10	4	1	8	8	6	1	2	20	60	1	IV	10 N	3·67	+0·28	0·95	12	12	1	6	1
Savanne	48 55	90 18	1506					59·0	+ 1·0	22	85·0	18	28·0	11	30·4					0	1	3	23	0	28	0	0	35	90				3·50	+0·52	1·60	4	26	2	3	0
Cottam	42 7	82 45	606					68·5	+ 0·9	18	94·0	29	40·0	11	16·0																				3·49	+0·53	1·15	12	18	0	2	3
Brantford	43 10	80 21	750					66·9	+ 1·7	24	92·0	29	39·0	11	21·7																				3·93	+1·73	1·72	6	24	0	8	1
Parry Sound	45 19	80 0	635	29·91	30·11	29·63	0·78	64·1	+ 2·8	31	84·0	28	36·0	12	21·5		78	6	3	59	78	41	103	73	175	137	34	17	720	6·5	14·7	19 SE	5·47	+2·90	1·21	14	14	0	7	0
Owen Sound	44 34	80 55	597					64·4	+ 2·8	28	87·0	29	32·0	12	23·4					13	0	2	11	24	11	11	15	3	90				3·30	+0·40	0·96	14	16	0	7	3
Beatrice	45 8	79 20	800					62·3	+ 1·4	31	82·0	8	31·0	12	21·6			6	6	1	0	1	13	7	8	0	12	15	90				7·25	+1·04	1·13	13	17	0	5	2
Coldwater	44 38	79 40	600																																						
Gravenhurst	44 54	79 20	770					63 2	+ 0·1	35	85·0	8	32·0	12	22·5			5	0	5	0	11	8	13	11	13	5	21	90	II	IV	18 E	8·07	+1·63	2·20	12	15	0	10	0
Haliburton	45 1	78 28	1050					63·7	+ 1·5	18	86·0	28	29·0	12	25·5																				7·43	+3·78	1·51	15	15	0	11	0
*Point Clark	44 5	81 44	595					65·8	+ 5·4	33	90·0	27	45·0	11																				1·89	−0·39	0·75	5	25	0	7	6
Birnam	43 2	81 55	600					65·5	+ 1·1	21	90·0	29	38·2	12	18·4					9	5	8	5	3	6	15	5	1	60				3·29	−0·12	1·49	10	20	0	9	2
London	42 59	81 13	808	29·91	30·36	29·60	0·76	66·3	+ 0·4	22	89·5	29	37·5	13	19·9		80	5	0	0	0	0	11	0	37	29	13	0	90	1	II	2 S W	4·38	+0·91	0·94	16	11	0	10	0
Port Stanley	42 40	81 13	592	29·90	30·32	29·68	0·64	64·0	+ 0·5	32	84·0	29	41·1	12	17·5		78	5	0	1	1	11	12	3	9	10	5	8	60	7·4	16·0	13 E	2·84	+0·01	0·69	15	15	0	8	3
Woodstock	43 8	80 47	980																																						
Port Dover	42 47	80 13	635					63·9	0·1	30	90·5	29	39·1	12	15·8																				2·28	−0·28	0·41	12	18	0	7	0
Pelee Island	41 50	82 38	585					67·1	− 1·2	26	79·5	7	54·0	11	8·1																				1·86	+0·19	0·96	5	25	0	0	0
Paris	43 12	80 25	840					66·6	+ 1·3	17	89·0	30	36·0	14	22·5																				3·82	+1·60	1·57	11	19	0	3	0
Bancroft	45 1	77 50						63·2	+ 1·3	15	88·0	27	31·0	11	23·5																				5·45	+2·36	—	9	21	0	1	0
Rutherglen	46 15	78 48						61·7	+ 3·3	12	89·4	26	28·0	12	30·0																				2·58	+0·89	0·65	13	17	1	10	3
Agincourt	43 47	79 16	590					63·9	0·1	10	80·0	30	40·0	13	20·2																				2·58	+0·13	1·03	8	22	0	6	1
Hamilton	43 16	79 51	303																																						
Port Hope	43 56	78 20						64·0	+ 0·9	10	85·0	29	41·0	12	17·6																				3·62	+1·18	1·33	8	22	0	4	0
Kinmount	44 45	78 38	920																																						
Cockburn Island	45 57	83 18	610					61·4	—	8	85·0	28	35·0	12	20·1					2	2	5	14	12	5	7	2	11	60				3·67		0·93	10	18	0	5	11
Chatham	42 23	82 12	595					67·6	+ 1·4	19	94·0	29	38·0	1	22·9																				2·72	+0·16	0·95	6	24	0	0	0
Meaford	44 37	80 37	640					61·3	—	8	83·0	9	37·0	12	17·0					5	8	9	5	3	18	11	1	0	60				4·20		0·99	1	18	0	8	2
Listowel	43 44	80 58	1262					61·9	0·0	10	83·0	29	36·0	10	20·8																				5·04	+1·56	1·38	10	20	0	0	0
Bruce Mines	46 18	83 55	595					63·8	—	8	84·0	29	35·0	12	23·7																				4·36	—	1·15	13	17	0	6	0
Kenora	49 18	94 32	1102					62·4	—	7	84·0	15	40·0	1	20·3																				1·81		1·10	12	18	0	8	0
Sturgeon Falls	46 16	79 54																																							
Uplands	45 48	79 25						53·6	—	19	85·0	28	—							0	3	1	4	1	7	10	1	0	30				2·39	−1·09	0·36	14	16	0	9	0
Toronto	43 40	79 24	350	29·91	30·38	29·67	0·71	65·1	+ 2·6	65	91·0	29	42·2	12	18·5			6	5	117	84	105	44	105	72	101	45	47	720	7·2	14·7	18 E	3·8	+1·07	1·68	16	12	1	9	1
Welland	42 59	79 17	425					66·2	+ 1·0	20	88·0	29	41·0	12	22·1																				1·89	−1·01	0·57	10	20	0	0	0
Peterborough	44 17	78 19	722					65·8	+ 0·1	30	92·0	8	36·0	12	23·3																				6·75	+3·90	2·34	15	13	0	7	0
Lindsay	44 20	78 45	872	29·89	30·31	29·63	0·71	65·0	+ 1·4	26	86·7	8	38·7	12	21·5	59·5	86	6	5	2	2	3	6	11	11	4	17	34	90	1	II	18 E	6·79	+3 18	1·71	20	10	0	9	0
Desoronto	44 11	77 4	264																																						
Lakefield	44 25	78 15						65·7	+ 1·3	23	92·0	15	40·0	12	18·6																				7·32	+4·58	1·97	18	12	0	16	0
Kingston	44 13	76 29	285	29·90	30·40	29·61	0·79	63·0	0·0	32	78·4	16	39·7	12	14·6			6	5	1	5	3	4	6	24	4	5	5	60		9·2	21 S W	7·01	+4·36	2·01	15	15	0	7	1
Clontarf	45 23	77 9						66·8	+ 3·8	18	87·0	15	30·0	11	19·3			0	0																5·11	+1·68	0·70	18	12	0	8	0
Ottawa	45 26	75 42	291																																						
Rockliffe	46 9	78 6	557	29·91	30·43	29·61	0·79	61·0	+ 2·6	29	88·0	15	33·0	12	23·5			7	11	5	1	1	0	0	1	4	0	51	60				2·51	−0·65	0·82	8	22	0	0	2
*Sarnia	42 59	82 24	586					64·8	+ 0·7	12	92·0	29	40·0	11	—					9	2	4	1	14	7	0	0	53	90				2·87	+0·20	1·22	5	25	0	0	0

ONTARIO—*Concluded.*

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observed.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms	No. of fogs.
Nova Scotia—	° ′	° ′																																					
Halifax	44 39	63 36	97	29·93	30·16	29·58	0·58	58·3	+ 0·3	32	84·6	28	35·0	8	22·7	.....	.....	6	7	115	106	19	56	70	50	101	125	78	720	7·5	17·0	11 N W	1·69	−2·19	0·56	8	20	0	1	2
Sydney	46 10	60 10	35	29·90	30·23	29·51	0·72	53·1	− 2·5	33	81·0	27	29·0	8	20·4	.....	.....	7	10	90	25	59	30	48	156	19	130	163	720	3·1	.....	.....	1·91	+1·87	1·84	12	16	0	2	0
a Truro	45 22	63 18	70	29·84	30·11	29·46	0·68	56·2	− 1·5	33	82·3	29	27·8	16	25·2	.....	.....	6	6	7	14	6	9	5	19	13	8	9	90	.....	.....	.....	3·18	+0·16	1·88	13	17	0	1	5
Yarmouth	43 50	66 2	65	29·95	30·17	29·61	0·56	55·2	− 0·1	26	77·2	28	37·8	12	16·4	.....	.....	5	6	36	32	50	74	252	69	130	44	33	720	6·9	13·3	9 S	2·01	−0·93	0·68	12	17	0	3	7
a Pictou	45 42	62 41		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Hastings	45 39	61 22	45	.....	.....	.....	.....	57·2	1·0	15	86·0	27	31·0	7	20·7	.....	.....	.....	.....	4	0	1	4	5	3	9	4	0	30	.....	.....	.....	6·25	+2·69	1·95	8	22	0	1	0
*Whitehead	45 15	61 8	20	.....	.....	.....	.....	47·2	1·7	23	80·0	17	31·0	7	—	.....	.....	.....	.....	17	3	16	3	9	33	2	3	4	90	.....	.....	.....	1·50	+1·71	1·37	5	25	0	0	0
*Sable Island, E. Point	43 58	59 46	25	.....	.....	.....	.....	50·3	1·8	22	65·0	22	42·0	17	—	.....	.....	.....	.....	12	13	7	6	12	19	8	12	2	90	.....	.....	.....	3·14	+0·18	1·47	6	23	0	2	10
Sable Island, M. Station	43 57	60 6	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parrsboro'	45 23	61 19	40	.....	.....	.....	.....	55·6	—	9	77·0	29	32·0	15	20·9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3·15	—	2·28	7	22	0	0	0
Wolfville	45 7	64 20	28	.....	.....	.....	.....	59·6	—	9	84·0	11	36·0	5	25·8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3·49	—	1·90	6	22	0	2	0
Bridgetown	44 49	65 16	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windsor	44 59	64 6	90	.....	.....	.....	.....	58·4	—	4	82·5	28	36·5	16	22·2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2·66	—	1·19	10	20	0	0	0
P. E. Island—																																							
Charlottetown	46 14	63 10	38	29·92	30·19	29·45	0·74	55·6	− 2·2	31	77·0	10	37·0	16	18·5	.....	.....	6	7	57	171	9	38	65	222	14	63	81	720	7·1	13·0	15 N E	5·37	+3·35	1·45	13	16	0	4	0
Hamilton	46 25	63 48		.....	.....	.....	.....	55·1	—	8	78·0	30	35·0	8	17·2	.....	.....	.....	.....	3	3	5	1	3	12	2	1	0	30	.....	.....	.....	5·04	—	1·25	13	17	0	1	0
Summerside	46 18	63 51		.....	.....	.....	.....	54·9	—	6	75·0	29	37·0	7	15·8	.....	.....	.....	.....	3	7	1	6	0	8	1	4	0	30	.....	.....	.....	5·41	—	1·30	11	19	0	5	1
Newfoundland—																																							
St. John's	47 34	52 42	125	29·92	30·18	29·51	0·67	57·1	+ 0·2	33	79·2	28	43·2	12	15·5	.....	.....	6	8	8	8	4	4	11	16	3	4	2	60	10·6	17·3	12 N W	3·81	+0·75	1·51	12	16	0	1	7
Channell	47 37	59 9	50	.....	.....	.....	.....	47·6	— 1·9	22	62·0	17	33·0	1	12·4	.....	.....	6	4	0	6	2	26	17	0	33	2	4	90	II	VI	15 N E	5·85	+1·44	2·40	4	25	0	0	6
*Cape Norman	51 38	55 52		.....	.....	.....	.....	40·0	— 2·4	22	49·0	26	30·0	14	.....	.....	.....	.....	.....	6	15	15	9	3	4	16	21	0	90	.....	.....	.....	1·82	−0·18	0·89	4	26	0	0	3
*Amour Point	51 28	56 51		.....	.....	.....	.....	42·8	0·3	13	55·0	19	32·0	15	—	.....	.....	.....	.....	1	8	36	1	0	3	17	17	7	90	.....	.....	.....	3·11	+0·66	1·83	3	27	0	0	6
*Point Rich	50 42	57 25		.....	.....	.....	.....	45·7	— 1·1	22	9·0	21	32·0	23	—	.....	.....	.....	.....	4	23	17	2	4	21	16	3	0	90	.....	.....	.....	2·62	−0·29	0·60	7	23	0	0	3
Bermuda—																																							
Prospect	32 17	64 30	151	30·10	30·29	29·81	0·48	74·6	0·3	15	82·6	13	54·4	7	9·7	.....	.....	5	1	5	2	0	1	9	25	9	2	1	60	.....	22·9	20 S W	2·04	−3·54	1·40	5	22	0	0	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JUNE, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
British Columbia—										
Coquitlam	4·49	13	17	0·82	11					
Goldstream Lake	4·94	17	13	0·32	11					
Hartly Bay	7·39	17	13	0·96	12					
Nanaimo (2)	2·61	12	18	0·70	11					
Somas River	3·81	20	10	0·90	12					
Naas Harbour	1·69	20	1	0·91	22					
Alberta—										
Beaver Hills, W	5·21	15	15	1·96	28-29					
Bruederheim	5·81	12	18	1·43	30					
Conjuring Creek	2·64	10	20	0·51	27					
Garry Lake	1·90	—	—	2·10	21					2 in. in thunder storm on 22nd.
Innisfail	3·57	12	18	0·87	28					
Jumping Pond	3·00	10	20	1·79	21-22					
Josephsburg	7·96	11	19	3·67	6-7					
Kimball	1·80	8	22	1·37	21-22					
Lacombe	2·75	9	21	0·79	7-8					
Magrath	2·05	5	26	1·06	22					
Okotoks	1·11	8	22	2·30	21					Heaviest rain of season.
Sion	7·43	13	17	2·00	29					
Stirling	2·16	7	24	1·25	7-8					
Rocky Coulee	3·90	7	23	2·50	21-22					
Stanley	1·19	4	25	0·40	6					
Saddle Lake	4·48	12	18	1·08	28					
Wabamun	4·11	12	18	0·88	27					
Saskatchewan—										
Insinger	1·27	14	15	0·61	28					
Last Mountain	3·59	11	19	1·26	14					
New Warren	10·16	15	15	2·70	14					
Regina (2)	7·78	17	9	1·78	6					
Manitoba—										
Belmont	5·28	13	17	2·72	7-8					
Beaver	2·03	11	19	0·60	16					
Cartwright	4·71	13	17	2·60	6					Heaviest rain for 24 hours ever recrded.
Norquay	3·21	11	19	1·00	7					
Gretna	5·38	15	15	1·05	6					
Rosebank	4·19	13	17	1·20	10					
Rapid City	4·22	9	21	3·35	6 to 8					
Ontario—										
Ennismore	6·12	8	22	1·25	8					
Westminster	3·27	8	22	1·01	8					
Sydenham	5·57	11	19	1·15	23					
Wyoming	3·10	8	22	1·60	8					
Lion's Head	3·32	10	19	1·16	30					
Montagne	3·55	9	21	0·85	23					
Deer Park	3·90	13	17	1·02	9					
Huntsville	7·38	14	16	2·03	29					
Parma	5·65	11	19	1·83	8					
Croydon	4·80	10	20	1·40	17					
Westport	10·66	14	16	1·67	8					
Princeton	6·38	11	19	1·83	8					
Aurora	1·21	13	17	1·31	8					
Orangeville	5·09	10	20	1·15	9					
Dutton	1·61	5	24	2·98	8					
MacTier	3·61	13	17	0·81	16					
Watford	1·54	11	19	1·11	7					
Midland	7·57	16	14	1·25	16					
Georgetown	5·17	19	9	1·29	9					
Lansdowne	1·65	10	20	1·84	8					
Strathroy	6·18	10	20	1·11	8					
Wooler	7·58	13	17	1·71	21					
Emsdale	7·22	16	14	2·05	29					
Arden	8·98	11	16	3·02	8					
Goderich	2·00	6	24	0·60	8					
Wiarton	3·05	9	21	0·59	5					
Britannia	5·02	14	16	0·99	21					
Kiskogue Lake	1·61	18	12	1·06	8					
Fitzroy Harbour	3·77	9	21	0·70	24					
Lake Talon	3·63	11	16	1·30	7					
Penisi Bay	3·32	11	16	1·00	7					
Turtle Dam	1·66	12	18	2·17	7-8					
Bonfield	3·11	11	19	1·05	8					
White Fish	1·06	12	18	2·40	7-8					
Minards Bridge	1·11	12	18	1·50	7-8					
Winchester Springs	2·95	12	18	1·16	1-5					
Quebec—										
Bryson	1·25	9	21	1·80	23					
New Brunswick—										
Point Escuminac	1·76	11	19	0·72	22					

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF JUNE, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	0·01	0·09	0·37	0·47	0·52	0·65	0·68	0·65	0·61	0·61	0·56	0·52	0·47	0·34	0·01	0·00
Nanaimo	0·24	0·15	0·15	0·14	0·14	0·53	0·41	0·35	0·35	0·44	0·41	0·41	0·54	0·50	0·18	0·45
Agassiz	0·00	0·00	0·23	0·34	0·44	0·48	0·60	0·58	0·51	0·50	0·46	0·41	0·36	0·31	0·19	0·00
Battleford	0·11	0·10	0·17	0·14	0·17	0·16	0·37	0·26	0·18	0·23	0·17	0·19	0·22	0·18	0·21	0·05
Medicine Hat	0·17	0·50	0·61	0·65	0·66	0·70	0·72	0·63	0·68	0·60	0·54	0·58	0·48	0·50	0·31	0·15
Calgary	0·08	0·33	0·42	0·45	0·48	0·56	0·59	0·59	0·58	0·51	0·54	0·48	0·56	0·51	0·39	0·24
Indian Head	0·02	0·15	0·33	0·31	0·44	0·57	0·53	0·53	0·48	0·52	0·54	0·55	0·47	0·44	0·10	0·00
Brandon	0·00	0·00	0·32	0·44	0·51	0·51	0·61	0·63	0·63	0·68	0·62	0·55	0·44	0·35	0·12	0·00
Winnipeg	0·10	0·38	0·58	0·60	0·63	0·67	0·73	0·73	0·66	0·66	0·69	0·57	0·52	0·54	0·17	0·09
Haileybury	0·09	0·35	0·50	0·55	0·66	0·69	0·62	0·56	0·67	0·56	0·53	0·59	0·54	0·43	0·36	0·10
Woodstock	0·00	0·23	0·56	0·64	0·69	0·75	0·70	0·67	0·73	0·77	0·67	0·71	0·63	0·43	0·05	0·00
Toronto	0·00	0·11	0·46	0·54	0·59	0·59	0·67	0·68	0·61	0·63	0·66	0·61	0·45	0·42	0·00	0·00
Lindsay	0·03	0·26	0·34	0·36	0·45	0·50	0·51	0·60	0·59	0·54	0·56	0·57	0·46	0·41	0·10	0·17
Kingston	0·07	0·34	0·54	0·58	0·56	0·63	0·73	0·78	0·77	0·77	0·70	0·62	0·56	0·43	0·23	0·02
Barrie	0·00	0·31	0·45	0·49	0·55	0·57	0·60	0·61	0·62	0·61	0·59	0·52	0·56	0·41	0·34	0·09
Ottawa	0·00	0·07	0·26	0·50	0·51	0·59	0·64	0·72	0·73	0·69	0·62	0·68	0·65	0·61	0·61	0·26
Montreal	0·04	0·26	0·42	0·46	0·50	0·60	0·71	0·68	0·66	0·66	0·69	0·66	0·59	0·52	0·12	0·00
Sherbrooke	0·05	0·31	0·47	0·56	0·60	0·63	0·61	0·61	0·67	0·65	0·59	0·61	0·58	0·57	0·45	0·07
Quebec	0·00	0·32	0·51	0·53	0·51	0·56	0·66	0·67	0·69	0·69	0·65	0·65	0·60	0·58	0·33	0·01
Fredericton	0·02	0·33	0·54	0·60	0·66	0·70	0·73	0·71	0·68	0·90	0·67	0·63	0·59	0·50	0·42	0·11

	Victoria.	Nanaimo.	Agassiz.	Battleford.	Medicine Hat.	Indian Head.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Toronto.	Lindsay.	Kingston.	Barrie.	Ottawa.	Montreal.	Quebec.	Fredericton.
Mean proportion for month (*Constant sunshine being 1.*)	0·14	0·10	0·31	0·26	0·52	0·37	0·40	0·53	0·49	0·56	0·46	0·44	0·54	0·47	0·48	0·51	0·50	0·25
Difference from average	+0·02	—	+0·04	−0·15		−0·05	−0·05	0·00	—	+0·03	−0·11	0·10	+0·01	−0·04	0·00	+0·01	—	+0·09
Maximum daily amount	0·84	0·92	0·78	0·81	0·87	0·80	0·77	0·88	0·94	0·92	0·81	0·97	0·95	0·96	0·86	1·00	0·88	0·93
Date	24	24	21	15	25	12	12	3	12	12	12	12	14	12	13	13	13	13
No. of days completely clouded	0	3	5	10	5	5	2	3	1	0	1	2	1	3	2	4	1	7

Thunder recorded on :—

1. Parry Sound, Montreal, Brome, Meaford, Rutherglen, North Gower, Sutton, Madoc, Bala, Otonabee, Clontarf, Haliburton, Lansdowne, Arden, Huntsville.

2. Quebec, Ursa, Uplands, Lakefield, Hillview, N. Nicomen, Lansdowne, Cartwright.

3. Macleod, Truro, Atlin, Grand Manan, St. Johns, Montreal, St. John, Point Lepreaux, Lakefield, Bon Accord, Pekisko, Nelson, Tobacco Plains, Jumping Pond, Sable Island, Big Creek.

4. Gatesgarth, Chaplain, Moose Jaw, Estevan, Regina, Insinger, Summerside, Ursa, Lakefield, St. Peters, Gray Hill, Waitefield, Alix, Victoria, Bon Accord, Didsbury, Hillsdown, Kneehill, White Horse, Lion's Head, Foxleigh.

5. London, Lindsay, Gravenhurst, Charlottetown, Toronto, Parry Sound, Saugeen, Sutton, Alameda, Estevan, Point Clark, Meaford, Bruce Mines, Rutherglen, Clinton, Scarboro, Bala, Lucknow, Lakefield, Otonabee, Stony Creek, N. Bruce Beatrice, Owen Sound, Croydon, Cockburn Island, Bruederheim, Cowichan, Orillia Princeton, Westport, Midland, Georgetown, Strathroy, Emsdale, Princeton.

6. Montreal, Winnipeg, Regina, Brome, Point Clarke, Sutton, Kenora, Uplands, Bala, Lakefield, Clontarf, N. Bruce, Haliburton, Almasippi, Hillview, Morden, Oakbank, Lansdowne, Arden, Cartwright, Belmont, Carberry, Foxleigh.

7. London, Lindsay, Renfrew, Gravenhurst, Toronto, Port Stanley, Parry Sound, Gatesgarth, Point Clark, Meaford, Bruce Mines, Rutherglen, Agincourt, Port Hope, Port Dover, Ursa, N. Gower, Clinton, Madoc, Uplands, Lucknow, Bala, Peterboro, Lakefield, Otonabee, Birnam, Owen Sound, Cockburn Island, Hillview, Wyoming, Westminister, Lion's Head, Stony Creek, N. Bruce, Haliburton, Brantford, Emsdale, Arden, Rapid City, Aurora, Huntsville, Norquay, Barnardo.

8. London, Lindsay, Renfrew, Toronto, Port Stanley, Parry Sound, Quebec, Montreal, White River, Kingston, Brome, Chicoutimi, Meaford, Agincourt, Port Hope, Port Dover, Sutton, N. Gower, Clinton Madoc, Lucknow, Collingwood, Peterboro, Lakefield, Otonabee, Birnam, Owen Sound, Hillview, Wyoming, Westport, Georgetown, Lansdowne, Stony Creek, Clontarf, N. Bruce, Haliburton, Brantford, Strathroy, Wooler, Emsdale, Arden.

9. London, Lindsay, Gravenhurst, Port Stanley, Parry Sound, Winnipeg, Kingston, Saugeen, Brome, Clarke City, Meaford, Agincourt, Port Dover Scarboro, Sutton, Bala, Peterboro, Lakefield, Otonabee, Clontarf, Haliburton, Birnam, Almasippi, Wyoming, Deer Park, Westport, Georgetown, Lansdowne, Gretna, Huntsville, Haileybury.

10. London, Lindsay, Renfrew, Toronto, Port Stanley, Quebec, Montreal, Swift Current, Kingston, Gatesgarth, Chaplin, Moose Jaw, Last Mountain, Wolfville, Moncton, Brome, Shawenegan Falls, Meaford, Rutherglen, Port Hope, N. Gower, Peterboro, Otonabee, Birnam, Wyoming, Wooler, Dutton, Sable Island.

11. Vancouver, New Westminster, Chaplin, Regina, Sutton, N. Nicomen, Princeton, Croydon, Big Creek.

12. Edmonton, Swift Current, Battleford, Medicine Hat, Gatesgarth, Chaplin, Moose Jaw, Regina, Gray Hill, Waitefield, Alix, Victoria, Bon Accord, Hillsdown, Kneehill, Princeton, Pekisko, Beaver Hills W., Foxleigh, Stuart's Lake, Kitamaat.

13. Vancouver, Qu'Appelle, Prince Albert, Gatesgarth, Moose Jaw, Indian Head, St. Peters, Alix, Lloydminster.

14. Edmonton, Qu'Appelle, Last Mountain, Lloydminster.

15. Swift Current, Gatesgarth, Chaplin, Moose Jaw, Estevan, Rutherglen, Port Dover, Ursa, Clinton, Scarboro, Madoc, Lucknow, Collingwood, Lakefield, Otonabee, Brantford, Birnam, Owen Sound, Josephsburg, Rapid City, Barnardo, Carberry, Foxleigh.

16. Renfrew, Gravenhurst, Edmonton, Qu'Appelle, Battleford, Kingston, Gatesgarth, Regina, Rutherglen, Port Dover, Ursa, Sutton, Uplands, Bala, Collingwood, Peterboro, Lakefield, Otonabee, N. Bruce, Beatrice, Brantford, Owen Sound, Alix, Almasippi, Hillview, Morden, Bon Accord, Beaver Hills W., Midland, Emsdale, Gretna, Aurora, Huntsville, Cartwright, Belmont, Barnardo, Haileybury, Thetis Island, Orillia.

17. London, Macleod, Swift Current, Winnipeg, Gatesgarth, Chaplin, Moose Jaw, Sutton, Kenora, Lucknow, Stony Creek, N. Bruce, Birnam, Oakbank, Bon Accord, Wetaskiwin, Beaver Hills W., Wyoming, Croydon, Norquay, Foxleigh.

18. London, Port Stanley, Winnipeg, Gatesgarth, Point Clark, N. Gower, Ursa, Clinton, Sutton, Madoc, Lakefield, Birnam, Bon Accord, Westminster, Croydon Strathroy, Foxleigh.

19. Gatesgarth, Point Clark, Collingwood, Lakefield, Haliburton, Bon Accord, Arden, Rapid City, Carbary.

20. Gravenhurst, Port Stanley, Winnipeg, Point Clark, Paris, Port Dover, Kenora, Lucknow, Stony Creek, Haliburton, Quesnel, Lion's Head, Wiarton.

21. London Gravenhurst, Clarke City, Chicoutimi, Bruce Mines, Rutherglen, Port Dover, Ursa, Scarboro, Sutton, Uplands, Bala, Collingwood, Stony Creek, Haliburton, Birnam, Wetaskiwin, Tobacco Plains, Wyoming, Midland, Emsdale, Huntsville, Dutton.

22. Renfrew, Gravenhurst, Charlottetown, Port Stanley, Calgary, Summerside, Brome, Shawenegan Falls, Rutherglen, Ursa, Sutton, Kenora, Bala, Lakefield, Haliburton, Deer Park, Lansdowne, Grassy Lake.

23. Lindsay, Toronto, Montreal, White River, Wolfville, Agincourt, Paris, Ursa, Scarboro, Sutton, Madoc, Uplands, Bala, Peterboro, Otonabee, Haliburton, Croydon.

24. Charlottetown, Kingston, Summerside, Kenora, Oakbank, Arden.

25. Banff, Haliburton, Almasippi, Hedley, Golden, Salmon Arm, Georgetown, Cartwright, Belmont.

26. White River, Winnipeg, Gatesgarth, Moose Jaw, Moosomin, Kenora, Almasippi, Gleichene Revelstoke, Georgetown, Barnardo.

27. Gravenhurst, Sydney, Grand Manan, Charlottetown, Toronto, Father Point, Battleford, Banff, Kingston, Port Hastings, Hamilton, P. E. Island, Summerside, Moncton, Ursa, Clarke City, Bruce Mines, Scarboro, Lakefield, Otonabee, Savanne, Brantford, Gray Hill, Alix, Gleichen, Hillsdown, Wetaskiwin, Josephsburg, Jumping Pond, Croydon, Aurora, Norquay, Fort Vermillion, Oakdale Park,

28. Lindsay, Gravenhurst, Edmonton, Port Stanley, Montreal, Swift Current, Gatesgarth, Chaplin, Alameda, Moose Jaw, Abitibi, Meaford, Bruce Mines, Rutherglen, Cottam, N. Gower, Ursa, Sutton, Madoc, Kenora, Uplands, Lucknow, Waitefield, Savanne, Beatrice, Haliburton, Cockburn Island, Indian Head, Blackfalds, Otonabee, Clontarf, Almasippi, Morden, Bon Accord, Wyoming, Westport, Midland, Emsdale, Rapid City, Belmont, Haileybury, Orillia, Fort Vermillion, Grenfell, Foxleigh.

29. Vancouver, London, Lindsay, Gravenhurst, Toronto, Father Point, Parry Sound, Halifax, Port Arthur, White River, Winnipeg, Moose Jaw, Shawenegan Falls, Rutherglen, Agincourt, Port Hope, Paris, Cottam, Port Dover, Ursa, Scarboro, Sutton, Madoc, Savanne, Beatrice, Haliburton, Brantford, Owen Sound, Cockburn Island, Kenora, Uplands, Lucknow, Bala, Collingwood, Lakefield, Otonabee, Stony Creek, Almasippi, Hillview, Oakbank, Tobacco Plains, Westport, Midland, Belmont, Wooler, Emsdale, Arden, Gretna, Aurora, Huntsville, Point Escuminac, Wiarton, Barnardo, Haileybury, Lloydminster, Orillia, Fort Vermillion, Oakdale park.

30. Lindsay, Sydney, Toronto, Parry Sound, King-ton, Ursa, Scarboro, Sutton, Madoc, Peterboro, Haliburton, Owen Sound, Cockburn Island, Almasippi, Westminster, Arden, Princeton, Norquay.

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

1. Quebec, III; Montreal, Minnedosa, Cape Magdalen, Rutherglen, Savanne, II.
2. Savanne, I, Fort Vermillion.
3. Victoria (Alt.), II.
12. Alameda, IV.
14. Toronto II.
15. Father Point, I; Quebec, IV; Aweme, II.
16. Waitefield, IV.
17. Father Point, III.
18. Waitefield, IV.
19. Waitefield, IV; Haileybury, IV.
23. Prince Albert, II.
24. Hillview, IV.
26. Bella Coola.
29. Prince Albert, II.
30. Threehills Creek, II.

FORECASTS FOR JUNE, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1318. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	85	72	10	3	90·6
Saskatchewan	83	61	18	4	84·3
Manitoba	91	76	13	2	90·7
Lake Superior	109	89	16	4	89·0
Lower Lake Region	122	109	12	1	94·3
Georgian Bay	122	107	15	0	93·8
Ottawa Valley	109	85	18	6	86·2
Upper St. Lawrence	109	89	16	1	89·0
Lower St. Lawrence	116	83	25	8	82·3
Gulf	122	85	28	9	81·1
Maritime Provinces, West	125	90	25	10	82·0
Maritime Provinces, East	125	88	23	14	79·6
Total	1318	1031	219	65	86·8

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th July, 1905.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXX. JULY, 1906. No. 7.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was exceedingly warm and dry and although the night temperatures were comparatively low, 90 degrees during the day was very frequently exceeded over the upper mainland. The falls of rain occurring chiefly during thunderstorms were mostly local and varied with the district as to date and quantity. Much bright sunshine was general and the proportion for the month exceeded the average considerably. Vegetation was affected by drought in some places but on the 31st the condition was normal.

In the Western Provinces the weather was unusually warm and dry, the daily maximum temperatures frequently exceeding 90 degrees in Alberta and occasionally in Saskatchewan. Local thunderstorms were somewhat frequent, more especially during the second half of the month, but in most cases the falls of rain were comparatively light and the aggregate amount was below the average. Throughout the greater portion of the month there was much bright sunshine, and on the 31st vegetation was more advanced than usual.

The weather in Manitoba was slightly warmer than usual and from the 6th to 11th 90 degrees was frequently exceeded at some places, high temperatures being also general from the 20th to 31st. Thunderstorms were somewhat frequent, more especially from the 8th to 18th and 24th to 29th, but the total precipitation, though heavy at a few places, was light in most localities. Exceedingly fine weather occurred between the 2nd and 11th and there were many fine days but the proportion of bright sunshine did not depart much from the average. The condition of vegetation on the 31st was normal.

In Ontario the weather was unusually warm and although the nights were comparatively cool temperatures between 80 and 90 degrees occurred frequently during the day in most districts. On or about the 14th 90 degrees was exceeded at a few places. Much rain occurred in the vicinity of York, Simcoe and Victoria counties, but in most districts the precipitation which occurred chiefly on or about the 4th, 8th to 10th, 15th to 17th, 20th to 23rd and 29th was light. Thunderstorms were somewhat frequent but the damage to crops was unimportant. Many exceedingly fine days were recorded but in some localities the proportion of bright sunshine was below the average. The condition of vegetation was normal.

The weather in the Province of Quebec was somewhat warmer than usual in most districts, and at most places the mean temperature exceeded the average; at Montreal, Bromc and Bicquet, however, it was slightly below the average. Fine weather prevailed and the rainfall which was recorded chiefly on or about the 3rd, 9th, 10th to 12th, 18th, 21st to 23rd, and 28th to 31st, was below the average in the aggregate. On the 31st vegetation was somewhat backward.

In New Brunswick the weather was warm and exceedingly dry, the mean temperature being in excess of the average and the rainfall considerably below in most districts. During the

second half of the month temperatures between 80 and 90 degrees were of frequent occurrence and at a few places 90° was exceeded on or about the 15th. Showers occurred on or about the 4th, 12th to 14th; 18th, 22nd, 24th and 31st. Near the Bay of Fundy fogs were recorded on ten days. A heavy thunderstorm was reported from St. John on the 13th causing some loss of life and considerable damage to property. Vegetation was slightly below the average condition on the 31st.

The weather in Nova Scotia was warmer and considerably wetter than usual and from the 14th to 25th the daily maximum temperature exceeded 80 degrees quite frequently at some places. Rain occurred almost daily from the 21st to 30th and was also recorded on or about the 4th, 10th and 13th. Light winds or calms were general and along the coast fogs were frequent. The condition of vegetation was below normal on the 31st.

In Prince Edward Island the weather was unusually warm and dry, the mean temperature exceeding the average and the rainfall being below. From the 15th to 19th 80 degrees was frequently exceeded and high temperatures were general during the second half of the month. Wet periods were reported on or about the 6th, 10th to 14th, 18th to 23rd, and 27th to 31st, but the falls of rain were mostly light. The condition of vegetation was normal.

F. F. Payne.

ATMOSPHERIC PRESSURE.

The atmospheric pressure of the month of July was about normal in British Columbia and Ontario: very slightly above normal in Manitoba and Quebec, and in excess of normal in Alberta, Saskatchewan and the Maritime Provinces, the maximum departures being 0·09 inch. at Banff and 0·06 inch. at Charlottetown.

HIGH AREAS.

During the month of July five areas of high pressure were sufficiently well defined to admit of their being charted, and all were of moderate energy. Four of the areas were first observed approaching the Pacific Coast from the West and after crossing the Rocky Mountains moved in a southeasterly direction, one disappearing in the Central States, one crossing the Central States and continuing into the Atlantic, and the other two crossing the Great Lakes and then moving to the Atlantic. The fifth was first observed in Manitoba and moved across the Great Lakes and thence to the Atlantic.

LOW AREAS.

Six areas of low pressure were charted during the month, and for the most part they were not very energetic. The general path of the areas was either over or to the northward of the Great Lakes. Very warm weather accompanied area No. 4, and heavy thunderstorms occurred during the passage of the greater number of the areas.

TEMPERATURE.

The mean temperature of the month was above average in nearly all parts of the Dominion, districts near Lake Superior and Southwestern Ontario alone showing a very slight negative departure. A positive departure of 1 degree in Eastern Manitoba increased westward to 6 degrees in parts of Alberta and from 6 to 9 degrees in Southeastern British Columbia, while over the larger portions of Ontario, Quebec, the Maritime Provinces and on the British Columbia coast the positive departure ranged between 1 and 3 degrees.

The Highest and Lowest temperatures in each Province during July, 1906, were:

British Columbia,	107° ·5 on 6th at Spences Bridge.	28° ·0 on 21st at Stuarts Lake.
Alberta,	99° ·0 on 8th at Red Deer.	35° ·0 on 1st at Blackfalds.
Saskatchewan	104° ·0 on 20th at Chaplin,	25° ·0 on 14th at Broadview.
Manitoba.	97° ·0 on 10th at Aweme,	35° ·0 on 17th at Virden.
Ontario,	96° ·0 on 22nd at Paris.	31° ·0 on 31st at Savanne.
Quebec,	91° ·6 on 16th at Chicoutimi,	35° ·3 on 5th at Chicoutimi.
New Brunswick,	91° ·5 on 15th at Chatham,	36° ·0 on 26th at Sussex.
Nova Scotia.	88° ·5 on 17th at Truro,	38° ·0 on 6th at Truro.
Prince Edward Island.	85° ·0 on 17th at Hamilton,	48° ·0 on 1st at Charlottetown,

PRECIPITATION.

The rainfall was deficient over the greater part of the Dominion, but over the more central counties of Ontario and the southern portion of Nova Scotia and Cape Breton it was excessive, the largest departures being in the districts between Halifax and Yarmouth, Nova Scotia. In the North-west Provinces the most pronounced deficiency occurred in Southern Alberta where in most places the fall was very scant, while in northern districts and in parts of Manitoba it was more nearly average. In Ontario just west of the Ottawa Valley the fall was decidedly deficient, and this was also the case in Eastern Quebec and in central British Columbia.

BRIGHT SUNSHINE.

The amount of bright sunshine recorded during July was subnormal over northern Saskatchewan and Western Manitoba and also over South-western Ontario; elsewhere in Canada an excess was very marked, in British Columbia being 17% at Agassiz, elsewhere the excess recorded was about 5%. The largest negative departure was 5% at Toronto, Ont. Very few days were reported as being completly clouded, the largest number being only 3 in the Maritime Provinces.

WINDS.

In British Columbia, on Vancouver Island and over the mainland the south and west directions were predominant. There were seven days of fresh and five of strong breezes, and on three days in the last week the force of a moderate gale was attained.

In Alberta and Saskatchewan the west and northwest directions were most general, with twelve days of fresh and six of strong breezes. A moderate gale occurred locally on the 26th.

In Manitoba no one direction prevailed, but there was an inclination towards the North and West. There were two days of strong and eight days of fresh breezes.

In the Lake Region the direction was variable and the force mostly light to moderate. On only five days did the winds increase to fresh breezes.

In the Ottawa and Upper St. Lawrence Valleys the south and west directions were predominant, and here also the winds were chiefly light to moderate. There were five days of fresh and one day of strong breezes.

In the Lower St. Lawrence Valley, and the Gulf, the westerly direction prevailed with fourteen days of fresh and seven of strong breezes. On the 5th, 24th and 30th, the force of a moderate gale was attained in the Gulf.

In the Maritime Provinces the South and West directions were predominant, with eleven days of fresh and three days of strong breezes. During the night of the 4th the winds increased to a moderate gale in Cape Breton and off the south coast of Nova Scotia.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1906.

a Barometer not reduced to Sea Level. ' Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with 01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
BRITISH COLUMBIA—				in.	in.	in.	in.																																	
Victoria	48	24 123 19	85	30·02	30·28	29·86	0·42	65·5	+ 5·5	15	88·5	3	50·1	7	22·4			3	1	42	18	8	40	132	378	45	27	21	744	8·1	20·0	22 SW	0·16	−0·22	0·16	1	28	0	1	0
Barkerville	53	2 121 35	4180	30·09	30·36	29·90	0·46	50·7	+ 1·7	18	88·0	7	30·0	1	28·9																		2·14	−0·86	0·38	9	22	0	3	0
Agassiz	49	14 121 31	52					69·4	+ 8·1	16	98·0	3	45·0	25	35·2			1	0	32	0	0	0	54	0	6	0	0	93				2·36	+0·29	0·63	6	25	0	0	0
Port Simpson	54	31 130 26	26	30·11	30·31	29·92	0·42	61·8	+ 5·6	19	72·8	11	45·5	5	15·0																		3·30	1·16	0·58	12	19	0	0	11
Revelstoke	51	0 118 6	1476					68·6	—		95·0	2	44·0	1	32·2																		1·62		0·60	8	23	0	6	0
Kamloops	50	41 120 29	1193																	8	12	37	0	81	15	12	0	579	744	1·3										
Princeton	49	29 120 29	1650					69·4	+ 7·2	13	93·0	3	43·0	1	38·2																		0·11	1·43	0·07	2	29	0	4	0
Pilot Bay	49	39 116 55	2000																																					
Rivers Inlet	51	39 127 19	20	30·10	30·40	29·95	0·45	58·9	+ 0·6	13	75·5	12	46·4	16	15·4		90	4	3	0	0	5	0	0	0	55	0	33	93	11	IV	15 W	2·19	−1·32	0·52	9	22	0	0	16
Stuart's Lake	54	28 124 12	2280					60·4	+ 5·9	13	91·5	7	28·0	21	38·1																		0·98	−0·10	0·36	4	27	0	1	0
Coldstream	50	11 119 15	1216					71·6	+ 9·4	12	100·0	1	50·0	1	33·7																		0·31	−1·01	0·14	4	27	0	0	0
a Nanaimo	49	10 123 57		29·90	30·16	29·73	0·43	67·6			92·0	13	48·1	1	21·0	58·5	76	2	2	1	4	6	1	0	0	5	11	21	87	7·1	21·7	11 NW	0·28		0·19	3	26	2	0	0
Chilliwack	49	10 131 57	21	30·02	30·27	29·79	0·48	69·4			91·0	3	49·3	30	23·4			3	2	1	1	5	15	47	17	5	2	0	93				0·53		0·16	2	29	0	0	0
Winter Harbor	50	32 128 3						59·6	+ 2·5	11	80·0	14	47·0	5	15·5																		2·06	−1·00	0·56	10	21	0	0	0
Salmon Arm	50	12 119 35	1245					74·1			101·0	4	50·0	1	30·7																		0·72		0·15	3	23	0	5	0
Nicola Lake	50	9 120 39	2120					69·1	+ 7·1	14	91·0	4	48·0	1	27·5																		0·30	−0·29	0·10	4	27	0	5	0
Garry Point	49	21 123 17						63·4	+ 3·6	11	78·0	14	45·0	31	18·5																		0·24	−0·83	0·24	1	30	0	1	0
Tobacco Plains	49	1 115 5	2684					72·3	+ 8·3	11	99·1	20	48·0	1	32·4																		0·83	0·98	0·38	4	25	0	1	2
a Vancouver	49	17 123 5	136	30·02	30·27	29·81	0·43	68·1			89·8	13	48·3	1	24·3			3	1	1	2	5	5	2	3	24	13	7	62	4·1	8·0	21 W	0·45	—	0·42	3	24	0	3	0
New Westminster	49	13 122 54	330	30·01	30·25	29·78	0·47	67·1	+ 1·2	13	90·4	13	48·0	30	24·6																5·3	22 E	0·39	−1·32	0·39	1	27	0	0	0
Ladner	49	5 123 4						64·4			85·0	12	45·0	31	23·7																		0·25	—	0·25	1	30	0	0	0
North Nicomen	49	12 122 2	59					69·4	+ 5·5	14	93·0	3	50·0	30	24·2																		0·51	−1·70	0·19	2	29	0	1	0
Quesnelle	52	59 122 30	1700					68·6	+ 6·5	12	100·0	3	43·0	21	27·8																		1·07	−0·55	0·37	4	27	0	8	0
Clayoquot	49	11 125 47	40					63·0	—		81·0	14	48·0	5	21·0																		0·11		0·06	1	27	0	0	0
Cranbrook	49	30 115 50	2890																																					
Massett	53	58 132 9	30					65·7			75·0	12	52·0	2	13·6					1	1	3	15	0	0	23	19	0	62				0·65	—	0·15	5	26	0	0	0
Bullion	52	45 121 55	2275					65·5	+ 6·5	10	98·0	3	32·0	5	33·0																		1·45	0·65	0·55	1	27	0	5	0
Bella Coola	52	10 126 54	150					65·0			96·0	14	47·0	16	22·7																		0·83	—	0·21	6	25	0	0	0
Cowichan	48	25 123 42	170					71·2			94·0	5	49·0	1	31·6																		0·25		0·07	5	26	0	5	0
Nelson	49	29 117 21	1760																																					
Okanagan Mission	49	52 119 29	1200					73·1			95·2	9	47·4	1	30·7																		2·03		0·95	4	5	0	0	0
Alberni	49	15 124 49	300					68·8	+ 3·3	12	98·3	14	44·0	1	34·6																		0·15	−0·95	0·06	3	24	0	1	0
Kuper Island	48	58 123 38	40																																					
Cape Scott	50	48 128 27						55·6			84·3	25	41·5	31	8·6																									
Glacier	51	14 117 29	1072																																		0	3	0
Golden	51	16 116 55	2550					67·7			91·0	6	41·0	1	33·8																		0·22	−0·32	0·09	3	27	0	3	0
Spence's Bridge	50	25 121 30	760					79·6	+ 6·9	10	107·5	6	57·0	23	32·1																		0·05	—	0·05	1	29	0	0	7
Bamfield	48	50 125 9		30·04	30·16	29·89	0·27	60·2			76·1	12	47·3	24	18·5	55·1	88	3	6	0	0	0	0	0	0	37	1	55	93				1·73		0·97	6	23	0	6	0
Big Creek	51	40 123 0						63·6			91·0	7	30·0	1	36·2																		1·01		0·33	6	25	0	0	0
Nickel Plate	49	30 120 0	5400					63·0	—		90·0	1	40·0	18	26·0																		0·16		0·11	3	28	0	1	0
Thetis Island	49	0 123 40						65·4			90·0	13	49·8	1	21·2																									
Hedley																																								
Kitamaat	53	59 128 42						63·0	—		87·0	13	45·0	20	22·2					10	0	5	0	16	0	0	0	0	31				1·02		0·53	5	26	0	0	0
Rossland	49	5 117 48	3400					68·4	—		88·0	5	48·8	27	25·2																		0·48		0·35	3	28	0	2	0
*Port Essington	54	9 129 55	10																																					
Atlin	51	35 123 35		30·06	30·38	29·69	0·69	53·6	—		77·0	7	35·0	1	21·3					0	0	0	4	13	1	1	0	13	62		VI	15 S	1·62	—	0·83	6	22	0	0	0
Athalmur								74·5	—		97·0	6	46·0	27	31·0																									
YUKON :—																																								
a Dawson	64	4 139 20	1200	28·76	29·16	28·37	0·79	60·0			80·0	12	39·0	3	24·4																		1·20		0·25	11	17	0	0	0
White Horse	60	15 135 0	2075					54·7			82·0	8	28·0	30	23·1																		1·55		1·02	1	27	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

| STATION. | Latitude N. | Longitude W. | Elevation above sea level in feet. | PRESSURE. | | | | TEMPERATURE. | | | |

ONTARIO—*Concluded.*

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level in feet	Pressure: Mean reduced	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observed.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of sunrises.	No. of Dangerous Storms.	No. of fogs.
NOVA SCOTIA—																																								
Halifax	44 39	63 36	88	30·00	30 19	29·75	0·74	68·5	+ 4·3	32	85·8	8	49	6	17·0					81	19	12	9	119	38	251	63	152	744	5·9	13·0	4 SW	6·12	+2·23	1·71	16	11	0	1	4
Sydney	46 10	60 10	35	29·98	30·37	29·71	0·66	66·2	+ 3·4	33	84·0	18	42·8	1	20·2					39	21	16	20	104	271	27	61	194	744	1·8	5·0	5 W	5·64	+2·17	1·14	12	19	0	0	0
*a*Truro	45 22	63 18		29·92	30·38	29·66	0·72	66·0	+ 2·0	33	88·5	16	38·0	6	21·1					2	7	2	7	3	12	14	2	14	93				4·31	+1·00	0·93	14	17	0	2	7
Yarmouth	43 50	66 2	65	30·02	30·48	29·74	0·74	60·6	+ 0·1	26	81·2	15	41·2	7	11·1					35	25	86	12	326	106	59	23	42	744	6·4	18·7	4 S	6·64	+3·11	2·16	18	13	0	0	19
*a*Pictou	45 42	62 41																																						
Port Hastings	45 39	61 22	15					67·8	+ 2·0	11	85·0	23	45	6	16·4					8	0	1	1	11	0	6	1	0	31				5·00	+1·76	1·80	8	23	0	0	2
*Whitehead	45 15	61 8	20					56·6	− 0·5	25	68·0	16	49·0	8	—					2	1	9	9	11	52	0	1	6	93				5·03	+1·85	1·22	8	23	0	0	12
*Sable Island, E. Point	43 58	59 46	25					60·2	− 0·3	23	67·5	24	52·0	7						12	1	4	4	26	19	18	9	0	93				8·69	+5·33	1·85	15	16	0	1	25
Sable Island, M. Station	43 57	60 6	25																																					
Parrsboro'	45 23	64 19	10					63·3	+ 0·8	10	83·0	15	38·5	4	19·9																										
Wolfville	45 7	64 20	28					66·9	—	9	85·0	24	42·0	9	20·9																										
Bridgetown	44 49	65 16	20																																					
Windsor	44 59	64 6	30					67·0	—	4	85·0	19	41·5	6	19·7																										
P. E. ISLAND—																																								
Charlottetown	46 14	63 10	38	29·97	30 11	29·61	0·80	67·9	+ 3·9	31	84·5	18	48·0	1						8	66	17	48	128	313	14	39	81	744	5·8	12·0	3 SW	1·87	−1·40	0·18	8	18	1	1	0
Hamilton	46 25	63 18						67·1	—	9	85·0	17	50·0	26	16·1					2	0	1	2	5	13	8	0	0	31				1·69		0·78	13	18	0	0	1
Summerside	46 18	63 47						66·1	—	8	82·0	16	49·0	5	11·3																				9·68		0·19	7	21	0	2	0
NEWFOUNDLAND—																																								
St. John's	47 34	52 42	125	29·97	30·37	29·62	0·75	63·9	+ 4·1	31	81·0	18	44·0	1	17·3					2	0	4	5	11	17	18	2	0	62		12·7	29 S W	2·58	−1·26	1·02	11	29	0	0	2
Channell	47 37	59 9	50					55·7	− 0·5	22	71·0	26	44·0	2	11·0				7	11	0	0	0	37	22	2	29	1	2	93	11	111	21 S E	8·35	+3·61	2·10	7	24	0	0	17
*Cape Norman	51 38	55 52						52·2	+ 2·0	21	67·0	29	43·0	1	15·1					3	3	3	2	6	6	54	16	0	93				4·00	+1·33	0·90	6	25	0	0	11
*Amour Point	51 28	56 51																																						
*Point Rich	50 42	57 25						56·0	+ 1·2	22	63·0	25	40·0	7						0	0	0	0	3	38	28	1	20	93				2·71	−0·81	0·90	6	25	0	0	14
BERMUDA—																																								
Prospect	32 17	64 30	151	30·02	30 36	30·10	0·26	79·2	+ 0·5	15	86·6	31	71·4	6	9·7					0	1	4	10	8	7	0	0	2	62		15·0	27 S E	1·00	3·15	0·18	9	22	0	2	0

PRECIPITATION AT STATIONS REPORTING RAIN, WEATHER, &c., DURING JULY, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
British Columbia—										
Goldstream Lake	0·28	4	27	0·12	10					
Naas Harbour	2·86	12	19	0·52	18			....		
Nanaimo	0·23	2	29	0·23	8-9					
Royal Oak	0·17	2	29	0·16	9					Thunder 21st.
Somas River	0·06	1	30	0·06	8					Thunder 9, 10.
Coquitlam	0·58	2	29	0·58	9 10					
Alberta										
Bruederheim	2·71	6	25	1·30	10					Thunder 10, 21, 24, 31.
Beaver Hills, W.	6·11	9	21	2·95	9					Thunder 7, 9, 10, 18, 19, 20, 23.
Conjuring Creek	1·09	9	22	1·28	23					Thunder 7, 9, 17. [26, 29.
Innisfail	0·12	6	3	0·24	9					Thunder 8.
Heather Brae	4·84	12	19	3·29	20 21					Thunder 31.
Josephsburg	0·31	3	28	0·27	2					
Kimball	1·50	4	27	0·90	13					
Lacombe	1·01	7	24	0·26	8					Thunder 7.
Magrath	0·51	3	28	0·38	22					
Nanton	1·86	6	25	0·92	24					Thunder 8, 16.
Stanley	0·46	3	28	0·30	12					Thunder 8.
Sion	2·33	9	22	0·60	6					
Stirling	0·40	2	29	0·10	12 13					
Saddle Lake	1·30	7	24	0·29	9					Thunder 7, 9.
Wabamun	3·03	11	20	0·61	23					
St. Paul des Metis	1·96	7	24	1·01	29					Thunder 7, 9, 19, 20, 28.
Rocky Coulee	2·34	4	27	1·24	13					Thunder 8, 13.
Okotoks	1·91	7	24	0·82	13					
Grassy Lake	0·60	0	31	0·00	0					
Jumping Pond	2·73	11	20	0·73	22					Thunder 6, 8, 16, 17, 19, 22, 30.
Saskatchewan—										
Dirt Hills	1·11	3	27	0·91	24					
Insinger	2·18	6	24	1·10	9					Thunder 9, terrible storm.
Last Mountain	0·40	4	27	0·29	10					Thunder 10, 27.
Regina (2)	1·15	9	20	0·85	23					Thunder 10, 19, 23, 26, 29.
Manitoba—										
Belmont	0·97	8	23	0·47	24					Thunder 3, 14, 24, 27, 30.
Beaver	2·90	12	19	1·58	24					
Cartwright	2·25	6	25	0·88	24					Thunder 24, 27, 29.
Gretna	2·96	11	17	1·10	24 25					Thunder 9, 21, 25.
Norquay	2·90	10	21	1·13	25					Thunder 1, 2, 9, 10, 25 28, 29.
Rapid City	2·16	10	20	0·80	18					Thunder 3, 4, 7, 9, 18, 19, 24, 25, 29.
Rosebank	2·79	8	23	0·80	10					
Ontario—										
Wyoming	3·60	5	26	2·00	29					Thunder 7, 8, 9, 23, 27, 29.
Princeton	2·87	9	22	0·79	29					Thunder 4, 8, 16, 29.
Montague	2·23	4	27	0·98	9					
Britannia Bay	1·20	7	24	0·34	22					Thunder 8, 22, 30.
Eau Claire	2·71	7	24	0·98	28					
Fitzroy Harbour	1·70	5	26	0·80	29					
Penisi Bay	1·95	5	26	1·05	29					
Turtle Dam	3·30	6	25	1·71	28					
Nasbonsing Lake	1·93	6	25	0·75	28					
White Fish	2·07	6	25	1·22	28					
Minards Bridge	3·17	6	25	2·13	28					
Winchester Springs	2·45	4	27	1·74	29					
Deer Park	1·83	6	25	2·01	9					
Huntsville	2·20	5	26	1·02	3					
Westport	1·87	7	24	0·73	4					Thunder 8, 9, 10, 17, 22, 29, 30.
Lion's Head	1·70	5	25	1·20	30					Thunder 14, 15, 20 21, 22, 28.
Watford	1·35	10	21	2·20	29					
Dutton	1·32	3	28	0·57	29					
Lansdowne	2·50	5	26	1·11	30					Thunder 8, 9, 10, 21, 29.
Croydon	2·70	5	26	1·00	1					Thunder 21, 22, 29.
Goderich	1·18	5	26	0·40	29					
Parma	3·75	7	24	0·88	1					
Strathroy	3·75	8	21	1·36	9					
Aurora	6·65	11	20	2·68	3					Thunder 7, 8, 10, 16, 20, 22, 29.
Orangeville	6·21	11	18	1·92	29					Thunder 1, 8, 9, 16, 20, 22 27, 29
Macaulay	2·49	9	22	0·76	1					
Wooler	0·87	1	27	0·49	1					Thunder 20, 27, 29.
Orangeville	1·90	8	23	2·70	30					
Arden	1·92	11	20	0·63	4					Thunder 1, 2, 9, 10, 18, 22, 23, 30
Ensdale	2·53	6	25	1·88	9					Thunder 7, 8, 14, 15, 27, 29.
Westminster	2·34	5	26	0·83	29					Thunder 15, 16, 29.
Sydenham	1·53	3	28	0·67	1					
Midland	1·39	5	26	0·69	29					Thunder 8, 27.
Wiarton	2·91	7	24	1·50	29					Thunder 14, 15, 16, 22, 27, 29.
Quebec—										
Bryson	1·80	3	28	1·10	29					
New Brunswick—										
Point Escuminac	1·31	7	24	0·43	13					Thunder 23.

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF JULY, 1906.

	Hours Ending														
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	8	0·46	0·71	0·82	0·78	0·82	0·87	0·88	0·92	0·92	0·86	0·85	0·83	0·83	0·55	0·00
Nanaimo	0·12	0·71	0·81	0·85	0·85	0·86	0·82	0·87	0·83	0·81	0·75	0·81	0·82	0·78	0·78	0·03
Agassiz	0·00	0·00	0·49	0·77	0·78	0·82	0·82	0·83	0·89	0·87	0·89	0·87	0·80	0·57	0·11	0·00
Kamloops	0·06	0·45	0·77	0·90	0·90	0·94	0·75	0·91	0·90	0·89	0·90	0·72	0·61	0·41	0·08	0·00
Calgary	0·03	0·65	0·81	0·86	0·88	0·90	0·85	0·88	0·89	0·80	0·70	0·61	0·64	0·61	0·57	0·21
Medicine Hat	0·15	0·61	0·81	0·87	0·93	0·93	0·93	0·95	0·94	0·94	0·93	0·87	0·84	0·85	0·73	0·27
Battleford	0·01	0·41	0·57	0·62	0·68	0·70	0·66	0·74	0·69	0·68	0·65	0·61	0·61	0·58	0·51	0·04
Indian Head	0·0	0·21	0·52	0·72	0·79	0·79	0·82	0·87	0·83	0·87	0·82	0·78	0·78	0·55	0·16	0·00
Brandon	0·00	0·00	0·31	0·61	0·68	0·69	0·77	0·82	0·85	0·80	0·66	0·72	0·79	0·69	0·28	0·00
Winnipeg	0·01	0·12	0·62	0·71	0·79	0·76	0·79	0·76	0·79	0·75	0·77	0·71	0·73	0·65	0·48	0·07
Woodstock	0·00	0·09	0·38	0·54	0·72	0·71	0·78	0·71	0·70	0·74	0·77	0·69	0·69	0·54	0·29	0·01
Toronto	0·00	0·07	0·50	0·67	0·67	0·69	0·75	0·76	0·74	0·73	0·76	0·74	0·66	0·61	0·02	0·00
Lindsay	8	0·28	0·42	0·48	0·67	0·72	0·68	0·68	0·70	0·71	0·67	0·62	0·60	0·56	0·49	0·23
Barrie	0·00	0·32	0·58	0·62	0·61	0·67	0·73	0·79	0·81	0·76	0·69	0·67	0·67	0·68	0·30	0·01
Haileybury	0·10	0·54	0·75	0·80	0·84	0·83	0·79	0·76	0·71	0·72	0·71	0·63	0·63	0·61	0·53	0·10
Kingston	0·08	0·41	0·67	0·72	0·76	0·87	0·82	0·84	0·84	0·75	0·75	0·71	0·70	0·52	0·75	0·00
Ottawa	0·00	0·05	0·53	0·70	0·73	0·79	0·69	0·72	0·71	0·75	0·76	0·77	0·73	0·65	0·19	0·00
Montreal	0·00	0·16	0·47	0·60	0·65	0·65	0·66	0·69	0·74	0·76	0·74	0·75	0·73	0·57	0·10	0·00
Sherbrooke	0·00	0·21	0·45	0·60	0·67	0·69	0·72	0·68	0·71	0·71	0·65	0·67	0·66	0·66	0·37	8
Quebec	0·00	0·11	0·40	0·56	0·63	0·67	0·69	0·73	0·70	0·67	0·60	0·56	0·56	0·46	0·18	0·00
Fredericton	0·00	0·10	0·35	0·51	0·58	0·60	0·62	0·66	0·66	0·68	0·61	0·60	0·60	0·60	0·45	0·07
Charlottetown	0·00	0·15	0·41	0·53	0·52	0·61	0·61	0·65	0·68	0·70	0·72	0·61	0·18	0·41	0·25	0·00

	Victoria.	Nanaimo.	Agassiz.	Kamloops.	Calgary.	Medicine Hat.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Haileybury.	Kingston.	Ottawa.	Montreal.	Sherbrooke.	Quebec.	Fredericton.	Charlottet'wn.
Mean proportion for month (*Constant sunshine being 1*)	0·71	0·74	0·61	0·65	0·77	0·80	0·54	0·60	0·51	0·60	0·56	0·55	0·56	0·60	0·64	0·63	0·58	0·63	0·51	0·49	0·55	0·48
Difference from average	+0·13	–	+0·17	–	–	–	−0·01	−0·05	−0·02	+0·04	+0·03	−0·05	−0·01	+0·04	–	+0·16	+0·09	0·04	–	–	+0·01	–
Maximum daily amount	0·89	0·93	0·77	0·81	0·94	0·94	0·80	0·82	0·82	0·93	0·90	0·84	0·97	0·90	0·94	0·95	0·86	0·98	0·85	0·89	0·90	0·90
Date	27	13	12	15	27	15	6	22	22	31	21	24	24	21	7	19	31	5	19	5	19	26
No. of days completely clouded	0	1	2	0	2	0	2	1	0	0	0	0	2	2	0	1	0	0	1	0	3	3

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

5. Haileyury, IV.
7. Haileybury, III.
10. Chaplin, IV; Fort Vermilion, IV.
11. Savanne, II : Cartwright, III.
12. Rutherglen, Haileybury, III.
14. Haileybury, IV.
18. White River, II.
20. Grenfell, Aweme, III : Kenora, IV.
24. Madoc, IV.
25. Kenora, IV.
26. Haileybury, IV.
27. Hillsdown, IV ; Kenora, IV.
29. Savanne, I ; Kenora, III ; Cape Magdalene.
30. Aweme, III ; Kenora, III ; Haileybury, IV.
31. Winnipeg.

Thunder recorded on :—

1. London, Almasippi, Carberry, Sutton, Arden, Cartwright.

2. Arden.

3. Estevan, Hillview, Almasippi, Oakdale Park, Agincourt, Scarboro, Kenora, Lakefield, Quesnel, Princeton, Ont., Stuarts Lake.

4. Toronto, Vancouver, Nanaimo, St. Stephen, Paris, Sutton, Scarboro, Big Creek, Bullion, Quesnel, Princeton, Georgetown, Fort Vermilion.

5. Nicola, Salmon Arm.

6. Bon Accord, Brantford, Birnam, Peterboro, Princeton, Banff.

7. Hillsdown, Knee Hill, Pekisko, Threehills Creek, Wetaskiwin, Alix, Gray Hill, Pakan, Owen Sound, Birnam, Agincourt, Clinton, Ursa, Madoc, Scarboro, Cottam, Lacknow, Bala, Peterboro, Nelson, Nicola, Princeton, Lacombe, Conjuring Creek, Wyoming, Aurora, Wooler, Emsdale, St. Paul de Metis, Beaver Hill W, Saddle Lake, Rapid City, Edmonton.

8. Toronto, Macleod, Lindsay, Bon Accord, Brome, Shawinigan Falls, Abitibi, Gleichen, Knee Hill, Pekisko, Almasippi, Paris, Point Clark, Owen Sound, Agincourt, Ursa, Madoc, Sutton, Scarboro, Lucknow, Kenora, Lakefield, N. Bruce, Orillia, Nelson, Salmon Arm, Revelstoke, Innisfail, Nanton, Stanley, Wyoming, Princeton, Ont., Westport, Lansdowne, Georgetown, Wooler, Emsdale, Leavings, Jumping Pond, Saugeen, Banff, Edmonton, Winnipeg.

9. Toronto, Stony Mountain, London, St. Peter, Moose Jaw, Foxleigh, Gatesgarth, Insinger, Brome, Bon Accord, Clarke City, Lloydminster, Knee Hill, Wetaskiwin, Alix, Waitefield, Pakan, Aweme, Carberry, Brantford, Port Dover, Point Clark, Owen Sound, Birnam, Agincourt, Madoc, Sutton, Scarboro, Lucknow, N. Bruce, Revelstoke, Conjuring Creek, Wyoming, Westport, Lansdowne, Croydon, Strathroy, Georgetown, Beaver Hill W, Saddle Lake, Gretna, Rapid City, Father Point.

10. Toronto, Alameda, Estevan, Foxleigh, Lost Mountain, Regina, Bon Accord, Brome, Lloydminster, Gleichen, Hillsdown, Knee Hill, Threehills Creek, Wetaskiwin, Gray Hill, Waitefield, Almasippi, Carberry, Paris, Brantford, Port Dover, Point Clarke, Agincourt, Madoc, Scarboro, Nelson, Bullion, Salmon Arm, Bruederheim, Westport, Lansdowne, Aurora, Arden, Gretna, Edmonton.

11. Alameda, Sussex, Hillview, Aweme, Oakbank, Sutton, Kenora, Quesnel, Prince Albert.

12. Stony Mountain, Truro, St. Stephen, Summerside, Nelson, Quesnel, Grand Manan, Winnipeg.

13. Stony Mountain, St. Stephen, Moncton, Summerside, Wolfville, Point Clarke, Nicola, Tobacco Plains, Leavings, Charlottetown.

14. Truro, Abitibi, Owen Sound, Lucknow, Uplands, Bala, N. Bruce, Lion's Head, Parry Sound.

15. Macleod, Owen Sound, Sutton, N. Bruce, Meaford, Cockburn Island, Big Creek, Bullion, Quesnel, Lion's Head, Woodstock, Haileybury, Wiarton.

16. Toronto, Macleod, London, Abitibi, Chicoutimi, Pekisko, Alix, Paris, Brantford, Agincourt,

Rutherglen, Meaford, Orillia, Princeton, Ont., Aurora, Georgetown, Westminster, Jnmping Pond, Barkerville, Swift Current, Wiarton, Rossland.

17. Gravenhurst, Knee Hill, Pekisko, Wetaskiwin, Waitefield, Rutherglen, Madoc, Sutton, Lucknow, Bruce Mines, Conjuring Creek, Westport, Emsdale, Calgary, Rossland.

18. Chaplin, Hillview, Aweme, Oakdale Park, Arden, Rapid City, Swift Current.

19. Gravenhurst, Alameda, Estevan, Moose Jaw, Foxleigh, Gatesgarth, Regina, Knee Hill, Three hills Creek, Waitefield, Hillview, Aweme, Oakdale Park, Owen Sound, Clinton, Meaford, Bullion, St. Paul de Metis, Jumping Pond, Beaver Hill W, Rapid City, Prince Albert, Edmonton, Haileybury, Fort Vermilion.

20. Lindsay, London, Bon Accord, Hillsdown, Knee Hill, Wetaskiwin, Gray Hill, Pakan, Oakbank, Almasippi, Port Hope, Savanne, Agincourt, Rutherglen, Clinton, Ursa, Sutton, Scarboro, Lucknow, Kenora, Lakefield, Peterboro, N. Bruce, Lion's Head, Strathroy, Georgetown, Saugeen, Calgary, Aurora, Wooler, Haileybury, Fort Vermilion.

21. Vancouver, Almasippi, Port Dover, Birnam, Agincourt, Clinton, Madoc, Sutton, Scarboro, Lucknow, N. Bruce, Bruce Mines, Alberni, Thetis Island, N. Nicomen, Garry Point, Princeton, Lion's Head, Lansdowne, Croydon, Royal Oak, Gretna, Parry Sound, Kingston, Coquitlam.

22. Vancouver, Nanaimo, Lindsay, Wolfville, Brome, Abitibi, Gleichen, Paris, Brantford, Port Dover, Owen Sonnd, Birnam, Agincourt, Ursa, Madoc, Sutton, N. Gower, Scarboro, Lucknow, Uplands, Lakefield, Bala, Clontarf, Peterboro, N. Bruce, Meaford, Orillia, Big Creek, Golden, Spences Bridge, Quesnel, Salmon Arm, Revelstoke, Britannia Bay, Westport, Lion's Head, Georgetown, Arden, Parry Sound, Victoria, Calgary, Banff, Haileybury, Wiarton.

23. Lindsay, Foxleigh, Regina, Gleichen, Wetaskiwin, Gray Hill, Waitefield, Brantford, Sutton, Big Creek, Nicola, Bullion, Revelstoke, Wyoming, Arden, Point Escuminac, Beaver Hill W, Quebec, Edmonton.

24. Macleod, Alameda, Foxleigh, Grenfell, Chaplin, Gatesgarth, Bon Accord, Indian Head, Lloydminster, Regina, Treherne, Aweme, Almsippi, Morden, Carberry, Oakdale Park, Kenora, Revelstoke, Bruederheim, Cartwright, Belmont, Gretna, Barkerville, Fort Vermilion.

25. Stony Mountain, Alameda, Chaplin, Oakbank, Morden, Oakdale Park, Savanne, Big Creek, Golden, Spence's Bridge, Banff, Bermuda, Winnipeg.

26. St. Peter's, Foxleigh, Gatesgarth, Regina, Bon Accord, Hillsdown, Carberry, Stony Creek, Port Dover, Bruce Mines, Nicola, Beaver Hill W, Rapid City, Calgary, Edmonton.

27. Chaplin, Last Mountain, Almasippi, Stony Creek, Brantford, Port Dover, Agincourt, Ursa, Scarboro, Lucknow, N. Bruce, Wyoming, Georgetown, Wooler, Emsdale, Midland, Cartwright, Belmont, Swift Current, Parry Sound, Wiarton.

28. Chaplin, Sable Island, Brantford, Port Dover, Owen Sound, Rutherglen, Sutton, Lucknow, Uplands, Kenora, N. Bruce, Meaford, Lion's Head, Haileybury.

29. Toronto, Gravenhurst, Lindsay, Regina, Bon Accord, Wetaskiwin, Blackfalds, Aweme, Carberry, Paris, Brantford, Port Hope, Haliburton, Birnam, Agincourt, Rutherglen, Ursa, Clinton, Madoc, N. Gower, Scarboro, Lucknow, Lakefield, Bala, Clontarf, Peterboro, N. Bruce, Bruce Mines, Wyoming, Princeton, Ont., Westport, Lansdowne, Croydon, Aurora, Georgetown, Arden, Emsdale, St. Paul de Metis, Beaver Hills W, Cartwright, Rapid City, Calgary, Banff, Edmonton, Wiarton, Renfrew.

30. Chaplin, Bon Accord, Wetaskiwin, Alix, Waitefield, Pakan, Blackfalds, Hillview, Ursa, Sutton, Big Creek, Nelson, Golden, Bullion, Quesnel, Britannia Bay, Westport, Arden, Belmont, Swift Current, Banff, Edmonton.

31. Lloydminster, Hillsdown, Gray Hill, Waitefield, Pakan, Spences Bridge, Bruederheim, Heather Brae, Barkerville, Edmonton, Bermuda.

FORECASTS FOR JULY, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1317. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	88	80	6	2	91·3
Saskatchewan	87	74	11	2	91·4
Manitoba	90	78	8	4	91·1
Lake Superior	118	94	22	2	89·0
Lower Lake Region	117	107	9	1	95·3
Georgian Bay	117	106	9	2	94·4
Ottawa Valley	114	106	7	1	96·1
Upper St. Lawrence	111	105	8	1	95·6
Lower St. Lawrence	119	107	12	0	94·9
Gulf	120	109	10	1	95·0
Maritime Provinces, West	116	89	20	7	85·3
Maritime Provinces, East	117	91	15	8	86·7
Total	1317	1149	137	31	92·4

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th August, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXX. AUGUST, 1906. No. 8.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was unusually fine and dry, more especially during the first and last ten days, when there was much bright sunshine. Showers were frequent at most places on or about the 12th to 16th and 21st and in a few northern districts the rainfall of the month exceeded the average. In most localities the temperature was slightly in excess of the average, and from the 4th to 11th, when the weather was extremely warm, 90° was occasionally exceeded over the upper mainland. Vegetation was adversely affected by drought in some portions of the province.

In the Western Provinces the chief characteristics of the weather were light precipitation and much bright sunshine, the falls of rain occurring chiefly on or about the 2nd, 14th, 18th to 22nd, 28th and 31st. The weather was exceedingly warm from the 8th to 18th, when maximum temperatures between 90° and 99° occurred on several days at many places. On or about the 3rd, 22nd and 25th quite low temperatures were recorded and light frost was reported from some places. Vegetation was somewhat withered during the early part of the month but recovered later.

The weather in Manitoba was unusually fine, more especially from the 4th to 19th, when there was much bright sunshine. The rain which was light in most localities occurred chiefly on or about the 2nd to 4th, 9th, 18th and 27th to 31st. High temperatures were general and from the 6th to 18th 90° was occasionally exceeded at most places. At St. Albans 103° was recorded on the 17th. Light frost was noted at a few places, and on the 31st vegetation was somewhat withered.

In Ontario the weather was exceedingly warm, more especially from the 1st to 11th and 16th to 26th when the daily maximum temperatures were generally between 80° and 90°, the latter figure being occasionally exceeded at some places. The rainfall varied considerably with the district both as to quantity and dates, but from the 4th to 9th, and on or about the 18th, 20th, 22nd and 26th there were falls at many places in the western portion, whilst in eastern districts they were more general on or about the 3rd, 6th, 10th, 20th, 23rd and 28th. In most instances the rain was accompanied by thunder, and in districts contiguous to the north shore of Lake Erie and the Counties of Victoria and Peterborough the total rainfall was heavy. The proportion of bright sunshine did not depart much from the average. The condition of vegetation was normal.

In the Province of Quebec the weather was unusually warm and dry and from the 2nd to 10th and 16th to 22nd, when high temperatures were general, between 85° and 90° was occasionally noted at many places. The falls of rain varied with the district but showers were fairly general on or about the 6th, 11th, 21st to 24th, 27th and 31st. During the intervening periods there was much bright sunshine. The condition of vegetation was somewhat below the average.

The weather in New Brunswick was quite warm, 80° being frequently exceeded and from 90° to 95° being recorded occasionally between the 18th and 21st. Showers occurred chiefly on or about the 7th, 12th, 24th and 28th and the total precipitation was considerably below the average. Owing to drought in many districts streams disappeared and vegetation was parched.

In the Province of Nova Scotia the weather conditions were quite similar to conditions in New Brunswick it being somewhat warm and exceedingly dry. From the 2nd to 11th and 18th to 22nd

maximum temperatures exceeding 80° occurred almost daily. At somes places from 90° to 96° was recorded on or about the 20th to 22nd. Rain was reported from most stations on or about the 1st, 7th, 12th, 15th, 19th, 24th and 28th. Calms and light winds were frequent On the 31st vegetation was somewhat withered.

The weather in Prince Edward Island was unusually warm and from the 4th to 9th and 19th to 21st temperatures well above 80° were recorded at many places. Rain occurred chiefly on or about the 6th, 10th, 22nd to 24th and 28th, but the falls were mostly light and in the aggregate it was considerably below the average. Owing to drought vegetation was somewhat withered on the 31st.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for August was normal or above throughout Canada, except in isolated localities in Saskatchewan and Nova Scotia where a slightly subnormal value was recorded. The maximum departure from average + 0·08 of an inch, occurred at Banff, Alta.

HIGH AREAS.

During August the highs were for the most part very moderate and of the six which were sufficiently defined to permit of their being charted, only three traversed the whole Continent

The areas were all first observed over Northern British Columbia or in the Yukon Territory and subsequently moved southeastward.

The most important system of the month was over the Yukon Territory on the 18th. and passed southeastward north of the Lake Region and over Quebec and the Maritime Provinces during the 24th and 25th, bringing cool conditions generally during its presence.

LOW AREAS.

Seven lows have been charted, but as in the case of the highs they lacked energy and were quite ill defined. The tracks were mostly further to the northward than usual and abnormally high temperature prevailed within the areas.

WINDS.

In British Columbia, on Vancouver Island and over the mainland the south and west directions predominated, the force seldom exceeding a fresh breeze and varying largely between light and moderate.

In Alberta and Saskatchewan the direction favoured slightly the south and west, with nine days with strong and thirteen with fresh breezes and two moderate gales.

In Manitoba the direction was variable with seven days with strong and seven with fresh breezes.

In the Lake Region the direction was variable with four days with strong and eight with fresh breezes. Between the 23rd and 24th local easterly gales were experienced on Lakes Erie and Ontario.

In the Ottawa and Upper St. Lawrence Valleys the direction was variable with four days with strong and eight with fresh breezes.

In the Lower St. Lawrence Valley and the Gulf of St. Lawrence, the westerly direction was the most general, with six days with strong and six with fresh breezes and one moderate gale which occurred on the 12th, and was more or less local.

In the Maritime Provinces the south and west directions were most in evidence, with two days with strong and fifteen with fresh breezes.

The only warning issued during the month was on the 27th and for Bay of Chaleur and Gulf of St. Lawrence Stations, but it was only subsequently justified at one or two points.

TEMPERATURE.

The mean temperature of the month was higher than the average over the larger portion of the Dominion, districts near the Coast and in Northern British Columbia alone showing a temperature lower than average. The highest positive departures, from 4 to 7 degrees, occurred in the more central parts of Ontario and New Brunswick, while in the St. Lawrence Valley the excess of the average was about 3 degrees, and in the North-West Provinces it was very generally between 1 and 2 degrees.

The Highest and Lowest temperatures in each Province during August, 1906, were :

British Columbia,	99° ·6 on 11th at Kamloops,	29° ·0 on 17th at Big Creek.
Alberta,	103° ·0 on 12th at Medicine Hat,	26° ·0 on 3rd at Knechill.
Saskatchewan	99° ·0 on 10th to 19th generally,	25° ·0 on 26th at Foxleigh.
Manitoba,	103° ·0 on 17th at Aweme,	26° ·0 on 20th at Carberry.
Ontario,	97° ·0 on 5th at N. Gower.	26° ·0 on 31st at Ursa.
Quebec,	97° ·3 on 21st at Chicoutimi,	25° ·6 on 25th at Chicoutimi.
New Brunswick,	100° ·0 on 20th at Chatham,	35° ·0 on 20th at Sussex.
Nova Scotia,	96° ·0 on 21st at Wolfeville.	35° ·0 on 25th at Truro.
Prince Edward Island,	92° ·3 on 30th at Charlottetown,	46° ·0 on 14th at Summerside.

RAINFALL.

The rainfall has been less than the average over the greater part of the Dominion, portions of Ontario lying east and south of the Georgian Bay and immediately north of Lake Erie together with more southern portions of Alberta alone showing a small excess, and even in these districts the larger fall was due to a few local thunderstorms. In the more northern parts of the Western Provinces and in British Columbia it was particularly scant, being very generally less than an inch ; and in the Ottawa and Upper St. Lawrence Valleys it was for the most part between one and two inches.

BRIGHT SUNSHINE.

An excess of the average amount of bright sunshine was recorded in all portions of Canada during August except in Western Ontario where it was normal or slightly below. The maximum daily amount was registered at Kingston, Ont., on the 15th when sunshine was constant. The extremes of dep rture from the normal value were +11% at Nanaimo, B.C., and —2% at Barrie, Ont.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, AUGUST, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'n	Highest	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
BRITISH COLUMBIA—				in.	in.	in.	in.																																	
Victoria	48 24	123 19	85	29·99	30·17	29·80	0·37	62·3	+ 2·3	15	80·5	26	45·4	16 21·2			3	2	45	41	28	48	221	250	72	6	30	744	6·7	20·0	31 SW	0·53	0·03	0·24	4	26	0	0	0
Barkerville	53 2	121 35	4180	30·06	30·36	29·68	0·68	52·7	— 2·7	18	78·0	10	32·0	1 24·4			5	1	0	0	1	0	6	0	0	0	55	62		7·5	11 S	1·30	2·18	0·8	13	18	0	1	0
Agassiz	49 14	121 31	52					63·1	5·2	17	86·0	16	40·0	27 37·6			1	0	27	0	0	0	54	0	12	0	0	93				1·01	1·21	0·46	3	28	0	0	0
Port Simpson	54 34	130 26	26	30·03	30·34	29·46	0·88	57·0	+ 0·1	20	69·4	3	45·7	19 12·1			7	17	2	0	20	4	10	0	19	1	6	62		14·3	14 E	8·76	+ 2·14	1·21	20	11	0	0	7
Revelstoke	51 0	118 6	1476					64·6	— 5·9	0	90·0	9	40·0	18 30·9																			0·88	— 0·55	6	25	0	1	0
Kamloops	50 41	120 29	1193	29·86	30·26	29·54	0·72	70·8	+ 2·6	13	99·6	11	46·0	18 30·1			4	1	1	0	1	3	0	3	4	1	49	62		18·0	14 SW	R	0·99	R	0	30	0	0	0
Princeton	49 29	120 29	1650					63·3	0·4	12	95·0	11	32·0	19 38·2																			0·11	— 0·65	0·10	2	29	0	0	0
Pilot Bay	49 39	116 55	2000																																					
Rivers Inlet	51 39	127 19	20	30·06	30·29	29·61	0·68	58·4	— 0·5	13	78·1	21	43·0	1 15·1		93	5	5	0	0	12	5	0	0	35	0	41	93	11	IV	13 SE	4·85	+ 0·07	1·20	13	18	0	0	9
Stuart's Lake	51 28	124 12	2280					54·0	+ 0·1	3	85·5	10	24·0	21 35·9																			0·87	— 0·30	0·26	5	26	0	0	0
Coldstream	50 14	119 15	1246					67·4	+ 2·1	10	97·0	11	39·0	17 33·0					0	7	13	5	1	0	5	33	31	93				0·23	— 0·50	0·20	2	29	0	0	0
a Nanaimo	49 10	123 57		29·87	30·08	29·66	0·42	61·9	— 7		85·9	26	45·0	3 21·8			3	0	0	7	13	5	1	0	5	33	31	93	7·1	25·1	19 NW	0·14	— 0·13		2	29	0	0	0
Chilliwack	49 10	121 57	21	30·02	30·27	29·79	0·48	69·1	— 8		94·0	3	49·3	30 23·1			3	1	1	1	5	15	47	17	5	2	0	93				0·53	— 0·46		2	29	0	0	0
Winter Harbor	50 32	128 3						58·0	— 2·3	11	78·0	22	45·0	2 13·7																			5·37	+ 2·33	2·63	8	23	0	0	0
Salmon Arm	50 42	119 35	1215					66·9	— 5		93·0	11	42·0	18 28·9																			0·21	— 0·13	3·20	0	2	0	0	0
Nicola Lake	50 9	120 39	2120					62·1	+ 0·2	11	88·0	10	37·0	19 27·8																			0·12	— 0·48	0·08	2	29	0	0	0
Garry Point	49 21	123 17						60·1	+ 0·6	11	79·5	14	40·0	16 20·2																			0·55	0·74	0·28	4	27	0	1	13
Tobacco Plains	49 1	115 5	2684					66·0	+ 3·2	11	96·1	12	44·0	24 29·4																			1·47	+ 0·19	0·51	6	25	0	0	0
a Vancouver	49 17	123 5	136	30·00	30·20	29·79	0·41	62·3	— 2	82	4	11	42·7	17 21·8		56·0	70	2	1	0	1	6	7	0	10	5	17	16	62	3·6	11·0	19 W	0·83	— 0·46		1	26	0	1	0
New Westminster	49 13	122 54	330	29·99	30·17	29·78	0·39	63·3	+ 0·1	12	81·0	26	43·6	17 24·7			3	2	1	1	13	1	1	25	5	1	14	62		9·0	2 SW	0·83	1·44	0·30	5	26	0	2	0
Ladner	49 5	123 4						60·5	— 6	80	0	20	40·0	15 25·6																			0·40	— 0·25		3	28	0	1	0
North Nicomen	49 12	122 2	59					65·0	+ 1·0	14	87·0	11	44·0	16 26·8																			0·58	1·18	0·30	3	28	0	0	0
Quesnelle	52 59	122 30	1700					63·1	+ 2·7	12	90·0	9	34·0	16 33·7																			0·50	1·43	0·20	4	25	0	2	8
Clayoquot	49 11	125 17	10					62·5	— 5		81·0	26	45·0	16 21·6																											
Cranbrook	49 30	115 50	2900																																					
Massett	53 58	132 9	30					60·6	+ 0·6	10	75·0	1	48·0	18 17·9								1	3	1	33	0	0	21	3	0	62									
Bullion	52 45	121 55	2275					56·7	1·3	10	85·0	10	30·0	17 31·9																			0·50	— 1·46	0·11	7	24	0	0	0
Bella Coola	52 40	126 54	150					61·1		9	86·0	22	39·0	18 23·4																			2·23		0·18	9	22	0	1	0
Cowichan	48 25	123 42	170																																					
Nelson	49 29	117 21	1760					64·9			90·0	7	44·0	2 27·0																			0·56		0·33	5	24	0	2	0
Okanagan Mission	49 52	119 29	1200					65·3		7	90·1	7	38·8	18 29·1																			0·11		0·06	2	28	0	0	0
Alberni	49 15	124 49	300					66·5	+ 1·4	11	96·0	26	39·0	17 39·6																			0·15	— 0·44	0·22	4	26	0	0	0
Kuper Island	48 58	123 38	40																																					
Cape Scott	50 48	128 27						55·4	—	9	69·8	3	41·0	22 10·7																			4·92	— 2·1	12·19	0	0	0		
Glacier	51 14	117 29	4072																																					
Golden	51 16	116 55	2550					59·8	—	4	91·0	12	35·0	18 32·6																								0	3	0
Spence's Bridge	50 25	121 30	760																																					
Bamfield	48 50	125 9		30·02	30·21	29·92	0·29	58·7	—	4	76·1	26	45·2	14 21·2			3	2	0	0	1	5	1	0	12	0	44	93				0·81	— 0·44	4	27	0	0	11
Big Creek	51 40	123 0						57·1	—	3	87·0	9	29·0	17 35·3																			0·33	— 0·13	3	27	0	0	0
Nickel Plate	49 30	120 0	5400					55·4			81·0	11	32·0	16 25·0																			0·38	0·33	3	28	0	0	0
Thetis Island	49 0	123 40						63·2	—	3	82·0	27	44·3	15 22·6																			0·09	0·07	3	28	0	0	0
Hedley								66·1			94·0	10	41·0	16 30·4																			0·31	0·36	1	30	0	0	0
Kitamaat	53 59	128 42						59·7			83·0	21	44·0	19 16·8								10	6	0	4	9	6	0	0	2	31				7·26	1·65	13	18	0	0	0
Rossland	49 5	117 48	3100					61·7	—	3	86·0	11	43·0	19 22·6																			0·71	0·19	7·24	0	2	0		
*Port Essington	54 9	129 55	10																																					
Atlin	54 35	123 35		29·96	30·40	29·32	1·08	51·1	—	1	72·0	21	33·0	15 18·5			8	12	1	3	1	9	30	1	0	3	14	62		IV	30 S	0·71	— 0·19	13	14	0	0	0
Athalmur								62·2	—	1	91·0	11	38·0	3 32·4																			1·46	— *0·55	6	25	0	0	0
YUKON :—																																								
a Dawson	61 4	139 20	1200																																					
White Horse	60 45	135 0	2075					51·3		2	72·0	21	28·0	7 23·3																			1·21	— 0·73	8	23	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. AUGUST, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms	No. of fogs.
MANITOBA *Con.*	° ′	° ′		in.	in.	in.	in.	°	°		°		°		°	°	%																							
Oakbank	49 57	96 42	710					62·8	+ 2·0	11	90·3	17	30·0	31	23·7					1	5	1	2	5	5	3	6	0	31				1·71	0·09	1·15	1	22	0	2	0
Oakdale Park	49 11	100 18						63·3	—		91·0	17	36·0	26	22·2																		2·43		1·40	6	24	0	2	0
Pipestone	49 34	100 58						65·8	—		97·0	18	38·0	25	25·4																		1·48		0·57	8	23	0	2	0
Portage la Prairie	49 57	98 17	830					64·6	+ 0·9	15	90·5	18	37·0	31	18·4																		2·08	0·32	1·78	5	26	0	0	0
Pierson	49 11	101 15																																						
*a*St. Albans (Awenne)	49 42	99 33	1180	28·73	28·97	28·37	0·60	66·9	+ 2·6	21	103·0	17	35·0	30	27·9					3	8	2	8	9	12	3	11	1	60	11	IV	29 W	3·62	+ 1·71	1·49	9	22	6	3	0
Stony Mountain	50 1	97 11	803	29·82	30·06	29·41	0·65	61·5	+ 1·1	27	95·0	18	33·0	30	25·1																		0·16	1·86	0·11	3	28	0	1	0
Treherne	49 36	98 40	1212					63·2	+ 2·1	11	92·0	17	31·0	31	21·9																										
Virden	49 51	100 55	1141					60·0	—	1	96·0	19	27·0	30	36·1																		1·14		0·75	6	25	0	0	0
Winnipeg	49 53	97 7	760	29·95	30·21	29·55	0·66	65·1	+ 1·5	32	92·8	17	31·8	31	24·0				5	0	10	6	5	0	19	2	6	4	10	62				1·33	1·19	0·86	6	20	3	2	0
ONTARIO																																								
Haileybury	47 29	79 39	687	29·97	30·35	29·56	0·79	66·8	+ 1·8	13	89·9	18	38·9	15	21·9					11	2	0	3	10	9	3	7	17	62	11	III	30 W	2·87	+ 0·01	0·49	12	18	1	3	0
Savanne	48 55	90 18	1506																																					
Cottam	42 7	82 45	606					71·9	+ 3·0	19	94·0	21	40·0	30	25·6																		1·62	0·90	0·50	11	20	0	3	5
Brantford	43 10	80 21	750					71·3	+ 3·6	22	91·0	23	42·0	31	22·3																		3·53	+ 1·43	0·96	5	26	0	6	2
Parry Sound	45 19	80 0	635	30·00	30·36	29·70	0·66	68·8	+ 1·8	30	91·0	9	45·0	15	21·4				1	2	81	84	76	117	51	112	89	53	7	741	6·7	13·3	30 SW	1·91	+ 1·70	2·01	6	20	1	4	1
Owen Sound	44 34	80 55	597					69·1	+ 1·3	28	91·0	26	40·0	13	21·4						12	6	6	11	15	13	7	19	1	93				1·93	− 1·48	1·34	4	26	0	1	2
Beatrice	45 8	79 20	800																																					
Coldwater	44 38	79 40	600																																					
Gravenhurst	44 54	79 29	770					68·2	+ 1·1	35	90·0	5	39·0	15	25·6					3	0	10	3	12	11	18	9	8	8	11	93	11	IV	29 S	1·95	− 1·35	0·94	8	21	1	5	0
Haliburton	45 1	78 28	1050					66·0	+ 3·8	19	92·0	5	35·0	15	28·5																		3·53	+ 0·69	2·20	4	27	1	1	0
*Point Clark	44 5	81 44	595					72·8	+ 6·5	36	95·0	22	59·0	13	—					3	0	16	0	1	0	17	3	18	8	6	93				2·15	− 0·14	1·40	3	28	0	0	1
Birnam	43 2	81 55	600					71·1	+ 5·2	23	88·0	5	52·1	31	16·8							11	3	12	5	6	3	7	5	10	62				3·93	+ 1·53	0·95	10	21	0	9	3
London	42 59	81 13	808	29·99	30·26	29·69	0·57	70·6	+ 3·8	22	89·0	5	46·0	13	20·1					4	4	0	0	0	0	33	58	2	0	93	1	11	20 SW	5·13	+ 3·19	0·90	10	21	7	0	0
Port Stanley	42 40	81 13	592					70·7	+ 4·7	32	85·5	5	49·9	28	18·1					4	2	8	5	15	5	2	8	11	2	3	62		14·0	11 SE	6·38	+ 3·96	2·01	12	19	0	11	3
Woodstock	43 8	80 47	980	30·00	30·30	29·73	0·57	69·6	+ 1·0	33	87·0	21	46·0	13	21·0			81	6	1	29	22	18	116	54	100	129	86	25	741	7·9	8·4	9 SW	3·75	+ 1·08	1·26	9	22	0	0	0
Port Dover	42 47	80 13	635					71·8	+ 3·6	31	87·1	23	46·1	28	15·0						2	3	3	0	7	6	5	4	1	33				2·56	+ 0·21	0·57	10	21	0	2	0
Pelee Island	41 50	82 38	585					75·8	+ 2·6	24	86·5	26	61·0	28	7·9																		0·78	1·28	0·31	3	28	0	0	0
Paris	43 12	80 25	840					73·8	+ 6·4	15			46·0	13	21·7																		2·73	+ 0·32	0·62	8	23	0	7	0
Bancroft	45 1	77 50						65·2	+ 1·2	12	90·0	5	31·0	31	27·9																		3·08	− 0·32	1·63	3	28	0	1	0
Rutherglen	46 15	78 48						65·5	+ 3·1	12	91·0	9	33·0	15	27·7																		3·37	+ 0·37	0·83	10	24	1	5	8
Agincourt	43 47	79 16	590					69·9	+ 2·9	10	90·0	6	46·5	15	21·4																		0·58	− 0·92	0·37	2	29	0	5	2
Hamilton	43 16	79 51	303																																					
Port Hope	43 56	78 20						69·8	+ 2·4	10	87·0	5	44·0	31	17·8																		0·78	1·52	0·27	5	26	0	1	0
Kinmount	44 45	78 38	920																																					
Cockburn Island	45 57	83 18	610					66·8			9·87·0	18	39·0	28	23·1						2	3	6	18	9	3	4	11	6	62				1·29		0·49	8	23	0	2	4
Chatham	42 23	82 12	595					71·2	+ 6·0	24	95·0	22	50·0	28	23·6																		1·56	0·54	0·78	4	27	0	0	0
Meaford	44 37	80 37	600					67·9			8·87·0	27	45·0	13	16·1						4	14	12	4	8	8	5	6	1	62				2·03		1·66	4	27	1	3	0
Listowel	43 44	80 58	1262					68·3	+ 1·8	18	88·0	21	44·0	12	22·3																		1·02	1·02	1·02	1	30	0	0	0
Bruce Mines	46 18	83 55	595					67·0	—		8·88·0	20	39·0	28	23·7																		1·77		0·97	7	24	1	0	3
Kenora	49 48	94 32	1102					65·2	—		7·88·0	11	38·0	31	18·9																		6·65		4·60	7	24	7	5	0
Sturgeon Falls	46 16	79 51																																						
Uplands	45 18	79 25						61·3	+ 0·5	21	88·0	4	32·5	15	32·5						0	0	3	2	3	19	4	9	0	31				2·63	+ 0·28	1·64	5	26	0	5	0
Toronto	43 40	79 24	350		30·31	29·72	0·59	71·0	+ 1·6	65	89·0	5	52·0	29	18·5	62·8	75	1	2	132	109	89	105	93	61	76	57	19	741	9·2	21·0	21 NE	1·83	− 0·98	0·58	11	16	0	8	1
Welland	42 59	79 17	577					73·1	+ 5·1	18	91·0	22	49·0	28	20·8																		3·22	+ 0·80	0·69	8	23	0	0	0
Peterborough	44 17	78 19	722																																					
Lindsay	44 20	78 45	872	29·97	30·30	29·69	0·61	69·4	+ 1·9	27	90·2	5	45·7	15	23·0				5	1	7	1	3	7	15	7	5	8	10	93	1	11	26 S	2·67	+ 0·17	2·58	4	26	0	4	3
Deseronto	44 11	77 1	264																																					
Lakefield	44 25	78 15						69·7	+ 3·2	21	89·0	6	48·0	15	19·8																		2·95	+ 0·61	1·74	7	0	0	5	0
Kingston	44 13	76 29	285	30·01	30·37	29·68	0·69	69·6	+ 2·1	32	82·3	9	48·3	15	16·2				3	1	3	5	7	5	7	11	7	4	13	62		16·3	26 SW	1·45	− 1·05	0·30	8	22	0	3	0
Clontarf	45 23	77 9						72·1	+ 8·3	19	92·0	5	50·0	14	19·0																		2·72	+ 0·47	1·33	4	26		3	0
Ottawa	45 26	75 42	294																																					
Rockliffe	46 9	78 6	557					67·0	+ 3·8	29	91·0	19	42·0	15	24·6				6	8	2	1	0	0	0	1	2	0	56	62				1·81	− 1·11	0·55	9	22	1	0	5
*Sarnia	42 59	82 24	586					69·2	+ 2·4	12	91·0	22	49·0	31	—						1	2	0	2	6	12	3	1	62	93		IV	27 N	0·15	− 0·99	0·15	1	30	0	1	0

ONTARIO — *Concluded.*

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, AUGUST, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of hours.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of Thunder Storms.	No. of fogs.
NOVA SCOTIA—	°	′	° ′																																					
Halifax	44	39	63 36	88	30·00	30·37	29·63	0·74	66·8	+ 1·9	32	92·6	20	43·8	25	19·9			5	9	165	63	36	1	99	33	120	127	109	744	6·3	13·0	11 S	1·52	−2·89	0·50	10	16	1	2	0
Sydney	46	10	60 10	35					65·8	+ 2·3	33	88·5	21	48·8	25	18·8			7	10	42	27	53	11	92	133	73	106	209	741	1·8			2·63	−1·01	0·72	9	22	0	4	0
a Truro	45	22	63 18	70	29·92	30·30	29·57	0·73	64·9	+ 1·5	32	90·9	19	35·0	25	24·0			6	2	5	1	0	4	6	32	5	9	28	93				1·15	−2·53	0·36	7	21	1	1	9
Yarmouth	43	50	66 2	65					61·5	+ 0·7	26	79·5	19	42·5	16	15·7			5	6	25	10	11	10	197	175	137	100	59	744	5			1·16	−2·75	0·50	9	21	0	2	16
a Pictou	45	42	62 41																																					
Port Hastings	45	39	61 32	45					67·7	+ 2·9	15	89·0	6	47	17	14·4					2	0	6	0	3	5	13	2	0	31				2·02	−1·81	1·26	4	27	0	1	0
*Whitehead	45	15	61 8	20					61·4	− 0·1	21	71·0	20	52·0	17						10	1	7	8	9	45	6	5	2	93				1·25	−3·00	0·87	3	28	0	0	13
*Sable Island, E. Point	43	58	59 46	25					61·3	+ 0·7	23	75·0	20	57·5	24	—					8	10	2	7	3	17	28	16	2	93				2·91	−1·72	1·18	5	26	0	0	14
Sable Island, M. Station	43	57	60 6	25																																				
Parrsboro'	45	23	61 19	40					63·5	+ 2·7	10	83·0	19	39·0	24	20·0																	0·80	−2·28	0·40	7	24	0	0	0
Wolfville	45	7	64 20	28					67·7	—	9	96·0	21	42·0	25	23·0																	2·61	—	2·27	5	24	0	3	0
Bridgetown	43	49	65 16	20																																				
Windsor	44	59	64 6	80					66·9	—	1	93·0	21	40·0	25	20·2																	2·03		0·80	8	23	0	0	0
P. E. ISLAND—																																								
Charlottetown	46	14	63 10	38	29·98	30·37	29·58	0·79	67·1	+ 2·5	31	92·3	20	47·0	25	16·7			4	4	30	108	7	32	63	281	22	91	110	744	6·1	13·0	11 S	1·47	−2·16	0·41	10	21	0	2	0
Hamilton	46	25	63 48						66·3	—	9	89·0	20	50·0	18	16·3					0	0	3	0	3	12	9	2	2	31				1·80	—	0·72	8	83	0	0	1
Summerside	46	18	63 51						65·4	—	9	88·0	20	46·0	14	15·1					1	1	1	2	2	15	11	8	0	31				2·49	—	0·90	7	24	0	1	0
NEWFOUNDLAND—																																								
St. John's	47	31	52 42	125	29·86	30·14	29·43	0·71	57·8	− 1·8	33	80·0	5	40·0	25	14·2			6	9	19	0	1	5	18	12	3	4	0	62		13·0	20 E	2·43	−1·57	0·58	12	18	1	1	5
Channell	47	37	59 9	50					58·0	− 0·3	21	80·0	20	46·0	17	13·2			6	5	1	3	5	25	11	2	32	7	7	93	11	111	16 NW	6·55	+2·85	2·50	5	26	0	1	8
*Cape Norman	51	38	55 52						56·2	+ 2·9	23	66·0	20	49·0	16						12	22	2	5	9	16	17	10	0	93				6·83	+3·39	0·90	14	17	0	0	4
*Amour Point	51	28	56 51																																					
*Point Rich	50	12	57 25						58·4	+ 0·8	22	66·0	12	45·0	25	—					17	5	1	0	16	26	24	4	0	93				4·30	0·63	1·10	9	22	0	1	5
BERMUDA—																																								
Prospect	32	17	64 30	151	30·17	30·36	30·03	0·33	80·4	+ 0·5	15	88·4	17	71·4	6	11·1			5	0	1	1	12	11	7	7	7	8	8	62		16·0	15 S W	4·46	−2·10	1·12	12	17	0	5	0

PRECIPITATION AT STATIONS REPORTING RAIN, WEATHER, &c., DURING AUGUST, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Coquitlam	0·63	3	28	0·61	13					
Denman Island	0·14	2	29	0·10	12					
Goldstream Lake	0·77	4	27	0·51	14					
Hartly Bay	6·59	12	19	1·42	15					
Naas Harbour	10·34	19	12	2·17	14					
Nanaimo	0·14	1	30	0·14	12					
Royal Oak	1·20	3	28	1·00	12					Thunder storm 12th.
Somas River	0·39	3	27	0·21	12					
ALBERTA—										
Beaver Hills, W	0.77	9	22	0·25	18					Thunder 7, 17, 18.
Bruederheim	0·61	6	25	0·22	28					Beautiful aurora 21, 25, froze potatoes & vegetables.
Conjuring Creek	0·31	2	29	0·25	20					20th 5 frost. 31st thunder.
Heather Brae	0·38	6	25	0·15	31					
Innisfail	2·03	7	24	0·93	2					
Grassy Lake	1·99	6	25	0·55	21					
Jumping Pond	3·07	8	23	0·91	21					13th thunder storm.
Josephsburg	1·56	5	22	0·84	22					
Kimball	3·26	6	25	1·19	27					
Lacombe	0·79	4	27	0·34	2					31st had hail storm.
Macleod (2)	3·49	9	22	1·57	9					29th hail and strong wind.
Magrath	3·21	6	25	1·50	21					
Okotoks	1·11	5	26	0·86	21					
Rocky Coulee	3·50	5	26	2·50	21-22					
Sion	1·36	9	22	0·53	17					
Stirling	4·22	5	5	2·94	20 to 22					
Stanley	2·90	9	22	2·60	20 to 22					2nd frost.
Saddle Lake	0·72	4	27	0·36	16					
St. Paul des Metis	5·19	3	28	4·04	15					15th thunder storm.
Wabamun	0·52	7	24	0·20	19					
SASKATCHEWAN—										
Insinger	0·13	4	27	0·23	27					
New Warren	1·04	3	28	0·38	2					
Regina (2)	0·70	6	24	0·29	22					
Last Mountain	0·05	1	27	0.02	22					
MANITOBA—										
Beaver	2·62	4	27	2·10	2					
Cartwright	3·89	6	21	2·07	1					Thunder 1, 9. Aurora 7, 12, 13. Frost 29-30, damaged vegetables.
Gretna	1·53	7	24	0·60	10					Thunder 10th. Frost 30th.
Norquay	2·63	6	25	1·83	2					Thunder 9, 10, 15, 16, 17, 28. Frost 30, 31.
Rapid City	0·93	6	25	0·55	3					Aurora 12, 15. Thunder 11.
Rosebank	0·95	5	26	0·30	27					
ONTARIO—										
Dutton	5·77	6	25	2·60	7					Thunder 5, 7, 20.
Huntsville	5·22	5	26	3·43	26					Aurora 7. Thunder 10, 26.
Aurora	2·68	9	22	1·08	10					Thunder 10, 20, 22.
MacCue	1·99	5	26	0·65	20					
Strathroy	2·52	10	21	0·79	20					Thunder 20, 26.
Georgetown	2·61	13	18	0·66	10					Thunder 1, 9, 18, 19, 20, 21, 26, 27. Aurora 12.
Sydenham	1·25	3	28	0·65	21					
Parma	1·53	6	25	0·74	11					
Midlaod	2·98	8	23	1·10	26					Thunder 5, 6, 19, 26.
Lansdowne	0·51	2	29	0·31	10					Thunder 1.
Arden	1·66	6	25	0·79	24					Thunder 7, 14, 21, 22, 23, 28.
Wyoming	1·20	4	27	0·45	21					Thunder 6, 18, 20, 21, 23.
Westminster	3·60	8	23	1·19	19					Thunder 18, 19, 24.
Croydon	0·25	1	27	0·20	10					Thunder 10, 22.
Emsdale	5·24	8	23	2·55	26					Thunder 5, 10, 20, 21, 26, 29. Aurora 12.
Wooler	1·91	4	27	0·92	10					Thunder 10, 21, 22.
Watford	4·03	9	22	0·93	9					
Princeton	3·90	8	23	1·11	20-21					Thunder 7, 19, 20, 21, 23, 26.
Goderich	1·40	3	28	0·50	26					
Deer Park	1·93	8	23	0·81	23					
Wiarton	1·01	3	28	0·40	9					Thunder 9, 29.
Montague	0·88	4	27	0·37	10					
Orangeville	3·25	5	26	1·94	10					
Westport	2·54	6	25	0·78	24					Thunder 7, 10, 11, 19, 20, 24
Britannia Bay	2·71	7	24	1·33	20					Thunder 5, 20.
Eau Claire	3·12	7	24	1·22	10					
Fitzroy Harbour	2·53	5	26	1·15	20					
Orangeville	3·25	5	26	1·93	10					
Winchester Springs	2·19	4	27	2·33	22					
Pinisi Bay	2·51	6	25	0·74	10					
Lake Talon	2·50	6	25	0·73	10					
Kishkogue Lake	3·12	7	24	1·22	10					
Turtle Dam	5·56	6	25	3·18	26					
White Fish	1·70	6	25	2·35	26					
Menard's Brid e	2·70	7	24	0·85	10					
Nasbonsing Lake	2·40	7	24	0·85	10					
Ennismore	2·03	3	28	1·10	11					Thunder 10, 23.
QUEBEC—										
Bryson	1·70	1	26	1·10	6					
NEW BRUNSWICK										
Point Escuminac	2·51	8	23	1·21	6					Thunder 6.

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF AUGUST, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	0·00	0·10	0·53	0·80	0·83	0·84	0·87	0·85	0·85	0·84	0·84	0·75	0·57	0·38	0·07	0·00
Nanaimo	0·02	0·25	0·79	0·81	0·88	0·90	0·88	0·85	0·86	0·84	0·81	0·79	0·74	0·72	0·31	0·00
Agassiz	0·00	0·00	0·15	0·47	0·67	0·81	0·84	0·84	0·82	0·74	0·67	0·68	0·46	0·16	0·04	0·00
Kamloops	0·04	0·56	0·74	0··6	0·81	0·77	0·76	0·71	0·76	0·67	0·70	0·65	·61	·04	0·00	0·00
Calgary	0·00	0·26	0·59	0·69	0·78	0·75	0·76	0·80	0·76	0·69	0·70	0·67	0·59	0·54	0·25	0·00
Medicine Hat	0·00	0·23	0·59	0·66	0·69	0·76	0·76	0·78	0·83	0·77	0·73	0·69	0·61	0·59	0·35	0·02
Edmonton	0·00	0·25	0·63	0·68	0·72	0·67	0·75	0·78	0·82	0·82	0·77	0·76	0·64	0·55	0·33	0·03
Indian Head	0·00	0·09	0·49	0·63	0·68	0·74	0·74	0·69	0·67	0·66	0·65	0·64	0·58	0·22	0·02	0·00
Brandon	0·01	0·00	0·37	0·75	0·75	0·73	0·76	0·75	0·78	0·73	0·68	0·69	0·67	0·44	0·05	0·00
Winnipeg	0·02	0·14	0·67	0·67	0·74	·78	0·76	0·80	0·81	0·83	0·80	0·80	0·74	0·59	0·27	0·00
Woodstock	0·00	0·00	0·27	0·49	0·53	0·61	0·66	0·69	0·76	0·79	0·79	0·75	0·73	0·57	0·01	0·00
Toronto	0·00	0·00	0·26	0·57	0·67	·72	0·78	0·75	0·81	0·81	0·76	0·74	0·67	0·58	0·00	0·00
Lindsay	0·00	0·12	0·31	0·39	0·62	0·59	0·58	0·68	0·69	0·74	0·69	0·57	0·61	0·56	0·34	0·01
Barrie	0·00	0·05	0·41	0·66	0·70	0·75	0·73	0·76	0·84	0·78	0·76	0·75	0·70	0·54	0·03	0·00
Haileybury	0·00	0·17	0·49	0·51	0·60	0·67	0·66	0·69	0·71	0·74	0·76	0·74	0·65	0·54	0·25	0·00
Kingston	0·21	0·56	0·69	0·72	0·69	0·72	0·79	0·78	0·72	0·73	0·71	0·68	0·60	0·35	0·15	0·00
Ottawa	0·00	0·10	0·55	0·71	0·75	0·76	0·80	0·77	0·79	0·78	0·75	0·70	0·70	0·55	0·05	0·00
Montreal	0·00	0·05	0·39	0·61	0·71	0·76	0·71	0·75	0·75	0·72	0·71	0·67	0·63	0·20	0·00	0·00
Sherbrooke	0·00	0·15	·54	0·63	0·65	0·66	0·71	0·76	0·74	0·77	0·76	0·66	0·65	·59	0·18	0·03
Quebec	0·00	0·06	0·34	0·48	0·55	0·61	0·68	0·70	0·72	0·69	0·66	0·63	0·6	0·47	0·10	0·00
Charlottetown	0·00	0·19	0·50	0·58	0·66	0·75	0·79	0·83	0·84	0·84	0·78	0·78	0·75	0·70	0·20	0·00

	Victoria.	Nanaimo.	Agassiz.	Kamloops.	Calgary.	Medicine Hat.	Edmonton.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Haileybury.	Kingston.	Ottawa.	Montreal.	Sherbrooke.	Quebec.	Charlottet'wn
Mean proportion for month (*Constant sunshine being 1*)	0·64	0·73	0·51	0·59	0·60	0·64	0·62	0·52	0·57	0·67	0·55	0·58	0·54	0·60	0·57	0·65	0·63	0·62	0·60	0·52	0·65
Difference from average		+0·11	+0·09	—	—		—	+0·03	-0·03	+0·10	0·00	0·00	0·00	-0·02	—	+0·09	+0·10	+0·05	—	—	—
Maximum daily amount	0·88	0·93	0·84	0·90	0·90	0·91	0·95	0·84	0·80	0·93	0·89	0·84	0·98	0·86	0·96	1·00	0·91	0·97	0·95	0·90	0·95
Date	16	26	1	19	29	7	15	23	8	5	6	31	15	13	1	28	15	12	8	28	1	25
No. of days completely clouded	0	1	1	3	1	1	0	3	1	1	1	0	1	1	2	2	0	2	1	3	2

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

6. Chaplin, IV ; St. John, II.

7. Truro, II ; Alameda, IV ; Chaplin, IV ; Foxleigh, Aweme, I ; Kenora, II : Meaford, Rutherglen, Bruce Mines, IV ; Huntsville, II : Cartwright, III ; Parry Sound, I ; Quebec, IV ; Gravenhurst, II ; Grand Manan, IV ; Rockliffe, IV ; Almasippi ; Haileybury, III.

8. Kenora, III ; Haliburton, Halifax, IV ; Winnipeg ; Haileybury, IV.

9. Chaplin, Kenora, II.

12. Alameda, IV ; Chaplin, Threehills Creek, III ; Aweme, I ; Madoc, IV ; Clinton, I ; Lucknow, IV ; Kenora, III ; Georgetown, IV ; Rapid City, Cartwright, II ; Emsdale, III : Quebec, III ; Father Point, III ; Grenfell, III.

13. Foxleigh, Kenora, II ; Cartwright, III ; St. John, II ; Winnipeg, II ; Grand Manan, IV ; Minnedosa, IV.

14. Threehills Creek, IV ; Hillsdown, IV ; Swift Current, IV ; Haileybury, III.

15. Aweme, IV ; Rapid City, Father Point, III.

16. Gray Hill, IV ; Kenora, III ; Father Point, III.

17. Kenora, IV.

19. Chaplin, IV.

20. Aweme, II ; Minnedosa, IV.

21. Bruederheim.

23. Father Point, IV ; Haileybury, IV.

24. Fort Vermilion, III.

25. Aweme, I.

26. Minnedosa, IV.

28. Gatesgarth.

30. Chaplin, IV ; Foxleigh ; Fort Vermilion, III.

31. Winnipeg, IV.

Thunder recorded on :—

1. Gray Hill, Oakbank, Cartwright, Prince Albert, Almasippi.

2. Chaplin, Kenora, Stony Mountain, Norquay, Swift Current, Winnipeg.

3. N. Bruce, Abitibi

4. Shawenegan Falls, Agincourt, Owen Sound, Stratford, N. Bruce, Brome, Georgetown, Midland, Kingston.

5. Toronto, Lindsay, London, Gray Hill, Agincourt, Birnam, Ursa, Scarboro, Clinton, Lucknow, N. Bruce, Otonabee, Meaford, Rutherglen, Cockburn Island, Chicoutimi, Banff, Dutton, Emsdale, Montreal, Gravenhurst, Yarmouth, Saugeen, Uplands, Clontarf, Orillia.

6. Moncton, Port Burwell, Sutton, Bala, Otonabee, Chicoutimi, Point Escuminac, Wyoming, Kingston, Parry Sound, Bermuda, Quebec, Charlottetown, Montreal, Father Point, Grand Manan.

7. Truro, London, Beaver Hills W., Channel, Wolfville, Brantford, Birnam, Ursa, Westport, Dutton, Arden, Princeton, Halifax, Bermuda, Grand Manan, Port Stanley.

8. N. Bruce.

9. Alameda, Hillview, Pipestone, Oakdale Park, Carbery, Aweme, Birnam, Ursa, Lucknow, N. Bruce, Kenora, Wiarton, Cartwright, Medicine Hat, Saugeen, Orillia.

10. Toronto, Lindsay, London, Agincourt, Ursa, Port Burwell, Madoc, Scarboro', Sutton, Lakefield, Bala, N. Bruce, Otonabee, Haliburton, Peterboro', Rutherglen, Westport, Norquay, Gretna, Huntsville, Aurora, Georgetown, Croydon, Emsdale, Wooler, Kingston, Uplands, Clontarf, Port Arthur, Parry Sound, Port Simpson, Gravenhurst, Saugeen, Port Stanley, Orillia, Paris, Emmismore.

11. Toronto, St. Stephen, Shawenegan Falls, Sutton, Brome, Chicoutimi, Westport, Arden, Quebec, Montreal, Port Stanley, Uplands, Haileybury.

12. Vancouver, Garry Point, Quesnel, Golden, Haileybury, Gray Hill, Hillsdown, Gleichen, Waitefield, Royal Oak, New Westminster, Quebec, Sydney, Victoria (Alt.), Bathurst, Revelstoke.

13. Ladner, Chaplin, Foxleigh, Nanton, Pekisko, Lloydminster, Jumping Pond, Medicine Hat, Gleichen.

14. Alameda, Chaplin, Lloydminster, Hillview, Brandon, Aweme, Kenora, Rapid City, Prince Albert, Medicine Hat, Qu'Appelle, Winnipeg, Last Mountain.

15. Hillview, Oakbank, Kenora, Norquay, St. Paul de Metis, Winnipeg.

16. Pipestone, Norquay.

17. Beaver Hills W., Alameda, Bon Accord, Hillview, Oakdale Park, Carberry, Aweme, Lakefield, Otonabee, Norquay, Swift Current, Edmonton, Minnedosa.

18. Toronto, Beaver Hills W., Hillview, Agincourt, Owen Sound (2), Cottam, Port Burwell, Scarboro', Otonabee, Georgetown, Wyoming, Westminster, Halifax, Port Stanley.

19. Toronto, London, Moncton, Bella Coola, Alameda, Regina, Hillview, Scarboro', Bala, Otonabee, Rutherglen, Westport, Georgetown, Midland, Lansdowne, Emsdale, Princeton, Swift Current, Perry Sound, Bermuda, Gravenhurst, Port Stanley, Minnedosa, Uplands, Paris.

20. Lindsay, Nanaimo, London, Shawenegan Falls, Brantford, Baneroft, Agincourt, Birnam, Port Dover, Cottam, Ursa, Madoc, Scarboro', Clinton, N. Gower, Sutton, Stony Creek, Lucknow, Otonabee, Port Hope, Perce, Dutton, Aurora, Strathroy, Emsdale, Port Arthur, New Westminster, Bermuda, Quebec, Gravenhurst, Port Stanley, Uplands, Clontarf, Paris.

21. London, Clarke City, Point Rich, Chaplin, Brantford, Birnam, Port Dover, Port Burwell, Madoc, Sutton, Lakefield, Otonabee, Sarnia, Perce, Arden, Wyoming, Wooler, Princeton, Montreal, Sydney, Port Stanley, Paris.

22. Toronto, Lindsay, St. Stephen, Summerside, Brantford, Agincourt, Birnam, Scarboro', N. Gower, Stony Creek, Lakefield, Otonabee, Peterboro', Aurora, Arden, Croydon, Port Stanley, St. John, Paris.

23. Toronto, Wolfville, Agincourt, Ursa, Scarboro', Sutton, Brome, Wyoming, Princeton, Charlottetown, Grand Manan, Port Stanley, Ennismore

24. Wolfville, Westport, Arden, Banff, Sydney.

25. Kenora, White River, Port Stanley.

26. Toronto, London, Brantford, Owen Sound, Birnam, Ursa, Clinton, Sutton, Stony Creek, Lucknow, Bala, N. Bruce, Otonabee, Meaford, Rutherglen, Cockburn Island, Bruce Mines, Huntsville, Strathroy, Georgetown, Midland, Westminister, Emsdale, Princeton, Parry Sound, Gravenhurst, Saugeen, Port Stanley, Haileybury, Orillia, Paris.

27. Gray Hill, Hillview, Brantford, Otonabee, Chicoutimi, Georgetown, Uplands, Almasippi, Haileybnry.

28. Gatesgarth, Chaplin, Norquay, Arden.

29. Bala, Bruce Mines, Abitibi, Wiarton, Emsdale, Port Arthur, Gravenhurst.

30. Sion, Nelson, Salmon Arm, Quesnel, Bon Aecord, Rutherglen, Chicoutimi, Cape Magdalene.

31. Heather Brae, Nelson, Gatesgarth, Foxleigh, Alix, Gray Hill, Blackfalds, Threehills Creek Knee Hill, Hillsdown, Bermuda, Qu'Appelle, Sydney, Yarmouth.

FORECASTS FOR AUGUST, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1344. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	85	64	17	4	85·3
Saskatchewan	81	63	13	5	85·8
Manitoba	82	72	5	5	90·8
Lake Superior	121	91	25	5	85·5
Lower Lake Region	128	108	15	5	90·2
Georgian Bay	128	100	24	4	87·5
Ottawa Valley	115	94	20	1	90·4
Upper St. Lawrence	116	94	20	2	89·6
Lower St. Lawrence	118	93	20	5	87·3
Gulf	120	99	15	6	88·7
Maritime Provinces, West	125	102	19	4	89·2
Maritime Provinces, East	125	101	19	2	90·8
Total	1344	1084	212	48	88·5

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th September, 1906.

It is with the deepest regret that we have to record the recent death of Dr. Thomas Harrison, President of the University of New Brunswick, who since 1874 has had charge of the Chief Station at Fredericton. A more conscientious and painstaking observer it would be difficult to find.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXX. SEPTEMBER, 1906. No. 9.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia did not depart much from the normal, excepting in the rainfall which was generally above the average over the lower mainland and in Cariboo and below elsewhere. During the first four or five days it was mostly fine and warm, a wet period then setting in and lasting in many districts up to the 14th. From the 15th to 21st comparatively fine weather prevailed, but after the latter date there was much cloudiness and frequent rain over the lower mainland, whilst further eastward the last three or four days of the month were fair. Fog was somewhat prevalent in the Straits of Juan de Fuca. Signs of autumn decay were noticeable on the upper mainland about the 20th, but elsewhere vegetation was green and luxuriant.

In the Western Provinces the weather was mostly warm and dry in Alberta, the mean temperature exceeding the average and the rainfall being deficient; in Saskatchewan warm weather also prevailed, but in most localities it was somewhat wet. In southern and eastern districts there was much bright sunshine, and throughout the provinces fine weather occurred between the 2nd and 8th and 16th to 30th. Frosts were recorded on several dates, and on or about the 12th and 26th they were severe. By the 30th the trees were rapidly becoming denuded of leaves.

The weather in Manitoba was unusually warm, this being more especially the case from the 2nd to 10th, when 100° was reached or exceeded at several stations, and between 90° and 100° was recorded at many places. The rainfall which occurred chiefly on or about the 1st, 10th, 14th, 26th and 28th was quite light in the aggregate, and the proportion of bright sunshine exceeded the average considerably. Frosts were noted on or about the 13th and 29th, but they were lighter than in Alberta and Saskatchewan. On the 30th the leaves of the trees were falling.

In Ontario the weather was unusually fine, warm and dry, the chief falls of rain occurring on or about the 3rd, 9th, 23rd, 26th and 29th, and much bright sunshine being recorded during the intervening periods. In the vicinity of Toronto, Peterboro, and a few other stations where thunder showers were heavy, the total rainfall exceeded the average. From the 6th to 13th, high temperatures were general, 90° or over being recorded during this period at some places. Light frosts were reported from a few stations on or about the 24th and 30th, but vegetation was little affected thereby, and on the 30th, with a few exceptions, trees were green, and there was still some growth in plant life.

In the Province of Quebec the weather was somewhat cool in the eastern portion and comparatively warm elsewhere, maximum temperatures exceeding 80° being recorded at western stations on or about the 12th. The rainfall which exceeded the average occurred chiefly between the 3rd and 8th, 14th, 23rd, 26th and 29th, much bright sunshine occurring between these dates. Frost was noted on the 25th, and in many districts vegetation had changed colour.

The weather in New Brunswick was comparatively warm from the 11th to 21st, but the mean temperature of the month only slightly exceeded the average. Rain was recorded on or about the 2nd, 6th, 14th, 23rd, 27th and 30th, the aggregate amount being less than the average. Between the showers referred to there was much bright sunshine which for the month exceeded the average. Light frosts were reported on the 26th, and the foliage of the trees quickly changed colour after this date.

In Nova Scotia the weather was dry and somewhat cooler than usual, rain occurring chiefly between the 1st and 8th, and on or about the 15th, 23rd, 27th and 30th. With the exception of the light rain on the 15th, fine bright weather was almost continuous from the 9th to 21st. During this period 70° was frequently exceeded and 80° was recorded at a few places on or about the 13th. Light frosts were reported and in southern districts vegetation shewed signs of decay on the 30th.

The weather in Prince Edward Island did not depart much from the normal, but it was exceedingly fine and was slightly cooler and drier than usual. From the 2nd to 7th rain was frequent and showers were also recorded on the 14th, 22nd, 23rd, 27th and 29th. From the 12th to 14th, temperatures exceeding 70° were general, and the lowest recorded during the month was 38° on the 21st, at Summerside. On the 30th vegetation was comparatively green and luxuriant.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for September exceeded the average from Manitoba to Eastern Quebec, and was subnormal elsewhere in Canada. The extremes of departure from normal were —0.10 of an inch at Battleford, Sask., and +0.08 of an inch at Port Arthur, Ont.

HIGH AREAS.

During September eight areas of high barometric pressure were sufficiently pronounced to permit of their courses being charted.

All of these systems moved across the Lake Region, the majority having passed southeastward from the far North-West and the others eastward from British Columbia.

Frost was little in evidence during the presence of these systems, except in the Prairie Provinces, where it occurred on several occasions.

Towards the close of the month the anticyclonic areas approached the usual fall type of intensity and rapidity of motion.

LOW AREAS.

Twelve areas of low pressure were charted during the month, five first appearing either in British Columbia or far to the northward of that province, one in Manitoba, two in the western portion of the continent, one in the southwestern portion and one in the Gulf of Mexico and two off the South Atlantic Coast. A marked feature in connection with the low areas was that three of the number were of tropical origin. The first of the two appeared in the West Indies at the beginning of the month and recurving passed near Bermuda, its accompanying gales not reaching the continent. The second swept the Carolina Coast on the 17th, causing much destruction along the south Atlantic coasts. It then moved inland with diminishing energy. The third was first observed in the Caribbean Sea and on the 27th reached the north shores of the Gulf of Mexico causing vast and widespread destruction of life and property. It also ultimately moved inland greatly diminishing in intensity.

WINDS.

In British Columbia, on Vancouver Island and over the mainland the south and west directions predominated, with seven days with strong and thirteen with fresh breezes.

In Alberta and Saskatchewan the direction favoured slightly the south and west, with ten days with strong and fourteen with fresh breezes as well as two moderate gales.

In Manitoba the south and west directions were most in evidence with six days with strong and ten with fresh breezes and three moderate gales.

In the Lake Region the direction was variable with three days with strong and seven with fresh breezes, also three moderate gales occurring between the 2nd and 3rd and on the 13th and 29th.

In the Ottawa and Upper St. Lawrence Valleys the south and west directions were the most general with six days with strong and ten with fresh breezes and two moderate gales.

In the Lower St. Lawrence Valley and the Gulf the westerly direction was the most in evidence, with eight days with strong and nine with fresh breezes and five gales, the latter occurring on the 1st, 6th, 14th between the 23rd and 24th and on the 29th.

In the Maritime Provinces the south and west directions were most usual with nine days with strong and ten with fresh breezes and two general moderate gales occurring on the 3rd and 29th.

Between the 23rd and 24th also the winds increased to the force of a moderate gale in some few localities. The gales which were experienced in the Gulf of St. Lawrence on the 1st and 6th were not warned, otherwise signals were duly displayed for the several gales.

TEMPERATURE.

The temperature was below normal locally in British Columbia, also in Eastern Quebec, Nova Scotia and Prince Edward Island, elsewhere in Canada the normal value was exceeded and in many districts to a marked extent. Alberta was from 2° to 4° above average, Saskatchewan 3° to 6° above, Manitoba 7° to 8° above and Ontario 2° to 5° above.

The Highest and Lowest temperatures in each Province during September, 1906, were :

British Columbia,	86° ·1 on 20th at Tobacco Plains.	21° ·0 on 25th at Big Creek.
Alberta,	88° ·0 on 19th at Cardston.	13° ·0 on 26th at Kneehill.
Saskatchewan	96° ·0 on 8th at Broadview.	17° ·8 on 12th at Lloydminster.
Manitoba,	103° ·5 on 8th at Morden,	15° ·0 on 2nd at Virden.
Ontario,	100° ·0 on 10th at Paris.	19° ·0 on 30th at White River.
Quebec,	85° ·6 on 12th at Chicoutimi,	26° ·4 on 25th at Chicoutimi.
New Brunswick,	82° ·0 on 12th at Chatham,	25° ·0 on 25th at Sussex&St. Stephen
Nova Scotia,	81° ·0 on 14th at Wolfville.	29° ·0 on 22nd at Truro.
Prince Edward Island.	75° ·2 on 12th at Charlottetown,	38° ·0 on 21st at Summerside.

PRECIPITATION.

The chief characteristics of the precipitation for September were the unusually heavy rainfalls in the Lower Mainland of British Columbia and in Cariboo ; also the deficiency of the rainfall in the Western Provinces excepting Southern Saskatchewan, and in the more northern and eastern portions of Ontario, as well as over the greater portion of the Maritime Provinces.

In the Peninsula of Ontario the average amount was exceeded in some localities and not maintained in others. In Quebec the normal value was reached in Western and exceeded in Eastern districts ; in the latter region the fall recorded was more than twice the average amount.

BRIGHT SUNSHINE.

The amount of bright sunshine recorded in Canada during September was in excess of the average from Eastern Saskatchewan to the Maritime Provinces and was normal in other districts. Extremes of departure from normal were +18% at Lindsay and Barrie, Ont.; Gravenhurst and Montreal, recorded the maximum daily amount 100%, which occurred at the former place on the 24th and at the latter on the 10th.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPTEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE.				TEMPERATURE.										Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM									VELOCITY OF WIND.			PRECIPITATION.			Days with .01 or more.	No. of fair days.	No. of aurores.	No. of thunder storms.	No. of fogs.
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.						N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Mean miles per hour.	Highest day's velocity.	Date and direction from.	Amount.	Difference from average.	Heaviest fall in month.				
BRITISH COLUMBIA				in.	in.	in.	in.																																	
Victoria	48	24	123	19	85	29·97	30·34	29·58	0·76	56·4	+ 1·0	15	71·7	1	42·2	11	13·7			6	7	83	76	62 1	62	106	198	89	23	21	720	7·3	17·3	4 SW	3·14	+0·94	1·31	11	17	0	0	3
Barkerville	53	2	121	35	4180	29·93	30·23	29·16	0·77	42·9	— 3·4	18	58·0	1	26·0	28	14·9			8	15	0	0		0	13	1	1	0	44	60		10·0	6 S	7·42	+4·16	1·28	22	8	0	0	0
Agassiz	49	14	121	31	52					53·8	0·9	17	71·0	14	37·0	26	25·9					21													6·32	+1·75	2·03	12	18	0	0	0
Port Simpson	54	34	130	26	26	29·87	30·33	29·32	1·01	51·1	— 1·4	20	59·3	1	37·0	20	11·0			8	12	1	1		12	9	2	8	1	5	60		12·0	5 SE	7·32	1·78	1·16	25	5	0	0	1
Revelstoke	51	0	118	6	1476					53·0	·6	7	74·0	2	34·0	11	18·9					45													4·40	1·21	12	18		0	0
Kamloops	50	41	120	29	1193	29·86	30·22	29·52	0·70	60·2	+ 2·7	13	84·0	18	35·0	25	21·5			6	8	14	6		84	74	0	9	0	188	720	3·5	17·0	18 SE	0·61	−0·37	0·40	5	20	0	0	0
Princeton	49	29	120	29	1650					54·4	+ 0·5	12	84·0	19	21·0	28	31·5																		0·62	−0·58	0·19	8	22	0	0	2
Pilot Bay	49	39	116	55	2000																			4																	
Rivers Inlet	51	39	127	19	20	29·95	30·31	29·54	0·71	51·3	— 2·0	13	61·6	3	39·5	27	9·2					0	0		28	0	3	11	0	44	90	1	V	4 SE	23·00	14·36	2·95	23	7	0	0	5
Stuart's Lake	54	28	124	12	2280					44·2	— 3·8	13	68·0	3	17·5	20	26·7																		1·55		0·31	12	18	0	0	0
Coldstream	50	14	119	15	1246					56·0	+ 0·2	12	82·0	19	34·0	11	23·9																		0·90	0·60	0·28	7	23	0	0	0
a Nanaimo	49	10	123	57		29·87	30·18	29·48	0·70	55·8	—	8	72·4	3	37·9	28	15·8		86	6	6	4	4	3	23	0	3	0	15	38	90	5·2	18·3	14 NW	5·03	0·98		14	15	0	0	0
Chilliwack	49	10	131	57	21	30·01	30·32	29·66	0·66	56·9	—	8	75·1	18	39·0	28	15·8					3	3	23	13	13	18	13	5	0	90				8·85	—	2·92	14	16	0	0	1
Winter Harbor	50	32	128	3						52·6	— 1·0	11	68·0	3	40·0	27	10·6																		18·92	+1175	4·80	19	11	0	0	0
Salmon Arm	50	42	119	18	1152					56·5	—	5	78·0	19	34·0	25	21·5																		1·28		0·46	9	10	0	1	0
Nicola Lake	50	9	120	39	2120					50·8	— 1·7	11	75·0	18	29·0	27	20·9																		0·77	+0·14	0·21	8	22	0	0	0
Garry Point	49	21	123	17						54·5	+ 0·8	11	70·0	2	31·0	27	14·3																		6·79	+4·03	2·08	13	17	0	0	4
Tobacco Plains	49	1	115	5	2681					59·7	+ 5·6	11	86·1	20	32·0	11	26·8																		0·31	+0·91	0·19	3	26	0	0	0
Vancouver	49	17	123	5	136	30·00	30·33	29·69	0·64	55·7		2	72·5	2	34·5	28	15·6			7	9	0	4	15	12	1	9	4	7	8	60		9·5	6 SE	8·87		3·13	15	12	0	1	1
New Westminster	49	13	122	54	330	30·30	30·33	29·72	0·51	55·9	— 1·3	13	70·5	2	35·6	28	14·9			7	9	0	5	16	3	3	14	0	3	16	60		11·0	24 SE	9·56	+6·24	3·28	12	16	0	1	0
Ladner	49	5	123	4						55·3		6	72·0	1	30	30	0	27	29·3																6·93		2·60	11	19	0	0	0
North Nicomen	49	12	122	2	59					57·6	+ 0·3	14	75·0	18	38·0	28	16·7																		8·92	+4·26	2·78	13	17	0	0	1
Quesnelle	52	59	122	30	1700					51·9	— 0·3	12	76·0	1	30·0	20	23·9																		2·55	+0·95	0·43	9	19	0	1	11
Clayoquot	49	11	125	17	40					56·2	—	8	73·0	3	39·0	28	16·2																		14·33	—	3·25	16	14	0	0	0
Cranbrook	49	30	115	50	2900																																			
Massett	53	58	132	9	30					53·0	— 0·3	10	65·0	13	40·0	13	14·9					1	11	4	32	0	2	8	2	0	60				4·85	+1·09	0·15	22	8	0	0	0
Bullion	52	45	121	55	2275					48·0	— 1·5	10	65·0	2	29·0	3	17·1																		2·95	+0·91	0·61	20	10	0	0	0
Bella Coola	52	40	126	54	150					51·6	—	8	67·0	15	34·0	20	15·1																		10·66		1·90	21	9	0	0	0
Cowichan	48	25	123	42	170																																			
Nelson	49	29	117	21	1760																																			
Okanagan Mission	49	52	119	29	1200					55·1	—	7	79·1	1	32·0	28	24·0																		0·85	—	0·37	6	24	0	0	0
Alberni	49	15	124	49	300					58·1	+ 0·3	12	80·1	19	37·0	29	19·1																		7·79	+5·08	1·59	21	8	0	0	0
Kuper Island	48	58	123	38	40																																			
Cape Scott	50	48	128	27						66·2	—	9	59·5	2	40·0	28	9·9																		14·02	—	3·15	22	8	0	0	0
Glacier	51	11	117	29	4072					51·1	—	4	80·0	20	28·0	12	25·4																					5·25	0	0	1
Golden	51	16	116	55	2550																																			
Spence's Bridge	50	25	121	30	760																																			
Bamfield	48	50	125	9	3110	29·97	30·30	29·45	0·36	53·0	—	4	69·6	20	39·9	14	16·8			6	11	1	0	11	30	0	0	17	0	31	90				9·58	—	2·70	17	13	0	0	3
Big Creek	51	40	123	0						47·0	—	3	71·0	1	21·0	25	23·8																		1·56		0·45	10	17	0	0	0
Nickel Plate	49	30	120	0	5400					46·2	—	3	69·0	19	26·0	28	18·7																		1·41		0·51	11	19	0	0	1
Thetis Island	49	0	123	40						55·2	—	3	67·9	1	38·5	28	15·7																		5·18		1·25	16	14	0	0	1
Hedley										56·5	—	3	86·0	18	31·0	28	28·0																		0·35	—	0·12	6	24	0	0	0
Kitamaat	53	59	128	42						51·2	—	4	69·0	18	35·0	19	14·2					11	0	0	1	10	6	0	1	1	30				11·42		1·90	24	6	2	0	0
Rossland	49	5	117	48	3100					54·1	—	3	76·5	19	32·0	11	19·6																		1·41	—	0·84	6	24	0	2	0
*Port Essington	54	9	129	55	10																																			
Atlin	59	35	133	38						42·8	—	1	57·0	7	26·0	22	15·4			7	6	6	16	6	6	18	1	0	1	6	30		IV	27 S	0·78	—	0·11	12	17	5	0	0
Athalmur																																								
YUKON :—																																								
a Dawson	64	4	139	20	1200																																			
White Horse	60	45	135	0	2075					42·0	—	3	59·0	8	16·0	21	22·0																		0·50		0·14	10	20	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPTEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA –*Con.*				in.	in.	in.	in.																																		
Oakbank	49	57	96	42	749															2	3	0	4	5	5	2	9	0	30				1·70	0·61	0·72	7	12	0	2	0
Oakdale Park	49	11	100	18				55·4		3	96·0																						0·57		0·44	3	27	0	1	0
Pipestone	49	34	100	58				59·7		4	98·0																						0·45		0·65	1	29	0	0	0
Portage la Prairie	49	57	98	17	830			59·1	+ 4·6	16	98·5	8	33·5	30	28·4																		0·84	– 0·61	0·70	4	26	0	0	0
Pierson	49	11	101	15	1531																																				
*a*St. Albans (Aweme)	49	42	99	33	1180	28·71	29·18	28·15	1·03	61·7	+ 7·3	22	98·5	7	29·0	29	32·3																	0·87	– 0·71	0·76	4	26	8	0	0
Stony Mountain	50	4	97	14	803																																				
Treherne	49	36	98	40	1212			58·3	+ 5·3	11	95·0	7	25·0	29	30·2																							3	0	0
Virden	49	51	100	55	1444			51·9	– 1·9	8	98·0	7	15·0	2	43·0																		0·50		0·50	1	29	0	0	0
Winnipeg	49	53	97	7	760	29·95	30·45	29·51	0·94	60·8	+ 7·9	33	99·0	7	31·0	27	27·8		5	2	8	2	5	1	19	6	10	1	8	60			36·3	21 S	1·51	0·59	0·75	8	19	0	4	0
ONTARIO–																																									
Haileybury	47	29	79	39	687	30·03	30·51	29·51	1·00	59·9	+ 5·0	13	91·3	8	32·3	24	21·7				7	1	0	2	7	10	7	12	14	60	11	IV	5 SW	1·45	1·75	0·49	9	19	9	3	0
Savanne	48	55	90	18	1506																																				
Cottam	42	7	82	45	606			65·7	+ 2·9	19	93·0	18	35·0	23	28·7					6	2	7	18	8	6	8	5	0	60				1·38	1·44	0·95	4	26	1	1	0
Brantford	43	10	80	21	750			64·1	+ 3·6	24	90·0	9	35·0	20	27·9																		1·80	– 0·51	1·19	3	27	0	1	0
Parry Sound	45	19	80	0	635	30·07	30·43	29·65	0·75	61·6	+ 4·3	30	85·0	10	34·0	24	22·3		2	3	54	53	53	132	36	180	131	72	99	720	6·8	16·7	13 W	3·59	– 0·29	2·86	6	22	0	2	0
Owen Sound	44	34	80	55	597			64·0	+ 6·7	30	91·0	12	35·0	24	23·6					5	5	3	4	22	5	7	7	2	60				3·08	– 0·34	1·03	7	23	0	2	0
Beatrice	45	8	79	20	800																																				
Coldwater	44	38	79	40	600																																				
Gravenhurst	44	54	79	20	770			61·6	+ 4·3	35	88·0	11	35·0	24	23·3																										
Haliburton	45	1	78	28	1050			57·8	+ 1·2	19	87·0	12	28·0	24	26·8																										
*Point Clark	44	5	81	44	595			67·6	+ 7·6	36	97·0	8	43·0	24	—					2	0	25	1	0	1	54	0	9	0	0	90	IV	X	1 S	1·43	– 1·62	0·30	3	27	0	3	0
Birnam	43	2	81	55	600			65·4	+ 4·8	21	88·0	9	40·0	24	20·8							13	6	9	1	14	4	4	6	3	60				1·51	1·48	0·87	4	26	1	2	0
London	42	59	81	13	808	30·06	30·40	29·71	0·69	63·7	+ 3·1	22	87·0	9	36·0	24	24·6			3	4	1	6	0	3	0	36	36	8	0	90	I	II	29 NW	1·44	– 1·20	1·35	2	24	0	1	0
Port Stanley	42	40	81	13	592	30·08	30·37	29·72	0·65	63·3	+ 2·4	32	79·4	9	39·2	24	19·3			3	3	5	7	13	3	3	7	12	8	2	60		17·3	26 SW	2·40	– 0·40	1·36	9	21	0	2	7
Woodstock	43	8	80	47	980	30·08	30·44	29·62	0·79	63·2	+ 1·0	32	86·0	18	31·5	25	21·2		81	3	1	56	60	80	83	77	106	103	125	30	720	8·6	18·5	13 W	3·84		2·23	5	25	0	0	0
Port Dover	42	47	80	13	635			64·4	+ 3·1	34	86·2	9	40·0	24	16·6																		2·30	– 0·13	0·97	8	22	0	0	0
Pelee Island	41	50	82	38	585																																				
Paris	43	12	80	25	840			68·0	+ 7·3	17	100·6	10	34·0	24	33·3																		1·20	– 1·51	0·96	5	25	0	0	0
Bancroft	45	1	77	50				58·4	+ 4·3	15	87·0	9	30·0	24	30·4																		1·85	– 1·22	1·27	3	27	0	0	0
Rutherglen	46	15	78	48				58·6	+ 3·5	11	86·3	11	26·2	24	25·8																		2·23	– 1·93	0·48	7	23	2	4	4
Agincourt	43	47	79	16	590			64·0	+ 3·6	10	89·5	10	38·0	25	24·5																		1·62	+ 0·27	0·63	3	27	0	4	0
Hamilton	43	16	79	54	303																																				
Port Hope	43	56	78	20				63·4	+ 2·4	10	89·0	7	35·0	30	20·8																		1·71	– 1·32	0·93	6	24	0	3	0
Kinmount	44	45	78	38	920																																				
Cockburn Island	45	57	83	18	610			60·9	+ 1·0	10	88·0	10	36·0	1	21·0							2	1	8	9	7	7	10	7	9	60				2·97	– 0·84	1·15	8	22	0	4	
Chatham	42	23	82	12	595			67·8	+ 5·8	20	92·0	9	42·0	24	21·4																		1·78	+ 0·23	0·88	5	25	0	0	0
Meaford	44	37	80	37	600			62·9		8	87·0	12	39·0	16	18·5							14	7	3	6	5	12	11	2	0	60				2·22		1·24	5	25	1	2	0
Listowel	43	44	80	58	1262			62·2	+ 5·0	10	88·0	10	32·0	30	24·8																		2·24	– 0·97	1·36	3	27	0	0	0
Bruce Mines	46	18	83	55	595			60·6		7	89·0	7	33·0	1	30	22	0																								
Kenora	49	48	94	32	1102			59·3		8	88·0	9	37·0	29	19·7																		3·01		0·95	8	22	0	3	0
Sturgeon Falls	46	16	79	54																													0·90		0·60	3	27	7	4	0
Uplands	45	48	79	25				57·8	+ 3·4	21	87·0	9	23·7	24	29·7																										
Toronto	43	40	79	24	350	30·06	30·39	29·60	0·79	64·2	+ 5·4	65	90·4	9	41·7	25	20·7	56·7	75	3	1	162	85	43	86	93	82	78	79	12	720	10·0	18·2	3 W	0·86	– 3·06	0·36	7	23	0	2	0
Welland	42	59	79	17	577			66·0	+ 2·1	20	88·0	10	40·6	25	21·6																		3·67	+ 0·45	1·37	7	23	0	3	0
Peterborough	44	17	78	19	722			61·7	+ 2·7	33	88·0	11	35·0	25	22·2																		2·85	0·52	0·75	7	23	0	0	0
Lindsay	44	20	78	45	872	30·03	30·39	29·60	0·79	62·6	+ 5·2	26	87·6	11	37·1	24	21·0			3	2	3	3	1	6	18	4	8	16	31	90	1	611	3 NW	4·45	+ 1·27	1·79	5	24	0	2	0
Deseronto	44	11	77	4	264																												1·24	+ 1·36	1·48	8	22	0	6	1
Lakefield	44	25	78	15				63·6	+ 1·4	23	86·0	10	39·0	24	19·5																										
Kingston	44	13	76	29	285	30·07	30·44	29·53	0·91	63·5	+ 2·9	32	84·0	7	39·5	23	18·2		4	2	5	13	0	3	3	15	7	10	4	60				2·21	0·41	1·04	7	23	0	3	0
Clontarf	45	23	77	9				68·0	—	19	94·5	21	34·7	30	19·6							4	0	6	0	12	7	2	1	58	90				2·60	– 0·10	0·72	8	22	0	1	1
Ottawa	45	26	75	42	294	30·03	30·44	29·43	1·01	62·4	+ 4·4	23	89·0	9	38·0	24	22·8					4	2	16	4	6	3	12	8	5	60				1·85	– 0·88	0·86	6	24	0	1	0
Rockliffe	46	9	78	6	557	30·07	30·52	29·51	1·01	59·8	+ 4·1	29	90·0	11	31·0	15	25·1			5	1	0	0	3	0	0	2	6	2	47	60		V	30 SW	2·37	– 0·30	1·55	8	19	0	3	0
*Sarnia	42	59	82	24	586			63·1	+ 2·0	42	92·0	9	36·0	24																						2·20	– 1·09	0·80	7	23	0	0	3
																																		2·06	– 0·30	1·00	4	26	0	0	3

Ontario *Concluded.*

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPEEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

| STATION. | Latitude N. | Longitude W. | Elevation above sea level, in feet. | PRESSURE. | | | | TEMPERATURE. | | | |

PRECIPITATION AT STATIONS REPORTING RAIN, WEATHER, &c., DURING SEPTEMBER, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS.
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Goldstream Lake	7·53	17	13	2·91	6					
Hartly Bay	21·30	20	10	3·50	15					
Nanaimo	1·63	11	16	0·93	11-12					
Royal Oak	3·51	8	22	1·22	6					
Somas River	8·18	16	14	2·01	6					
Denman Island	6·09	13	17	1·66	6					Thunder 8th.
Coquitlam	12·51	9	21	4·22	5·6					
ALBERTA—										
Bardo	0.50	3	27	0·20	8					Thunder 8th. Hard frost
Beaver Hills, W	0·23	9	18	0·05	25					First frost 10th [10th
Bruederheim	1·16	5	25	0·38	24					
Conjuring Creek	0·41	5	25	0·28	3					3rd froze after rain.
Grassy Lake	0·00	0	30							
Heather Brae	0·74	5	25	0·42	13					
Island Lake	0·31	5	25	0·15	13					28th night frosts general.
Innisfail	0·07	4	24	0·03	23					
Jumping Pond	0·02	1	26	0·02	13					30th leaves nearly all off
Josephsburg	0·05	2	28	0·04	14					[trees.
Kimball	0·05	1	29	0·05	14					
Lacombe	0·11	2	28	0·10	7					
Macleod	0·001	1	29	0·001	13					
Magrath										
Okotoks	No rain	in month.								10th heavy frost.
Rocky Coulee	"	"				No rain	in month.			
Stirling	0·06	1	29	0·06	11					
Sion	0·79	5	25	0·31	3					26th frost.
Saddle Lake	0·12	3	28	0·23	23					
Stavely										
St. Paul des Metis	2·38	5	25	1·07	14					
Vermilion	0·23	3	27	0·16	13					
Wabamun	0·81	8	22	0·41	3					
SASKATCHEWAN—										
Insinger	3·00	4	26	1·70	15					
New Warren	2·72	2	28	2·04	15					15th a few flakes of snow.
Last Mountain	2·84	3	27	2·50	11					[11th aurora.
Regina (2)	3·25	2	27	2.60	14					
MANITOBA—										
Beaver	1·20	2	28	1·00	15					
Cartwright	0·89	2	26	0·71	14					7th 75° in shade.
Rapid City	1·52	4	26	1·31	15					
Swan Lake	0·93	3	26	0·74	15					
Gretna	2·00	2	27	2·00	14-15					
ONTARIO—										
Princeton	2·27	3	27	1·04	29					
Wiarton	2·73	4	26	1·20	2					Thunder 2, 12. 30th heavy
Dutton	1·80	3	27	1·50	30					Thunder 26 [cutting frost.
Huntsville	3·42	6	24	1·50	29					Aurora 15th. Thunder 22nd
Orangeville	2·76	4	26	1·01	30					
Wyoming	1·50	4	25	1·10	29					
Westport	2·15	6	24	0·78	3					Thunder 12th, 18th.
Ennismore	2·80	4	26	1·00	22					Thunder, 2nd.
Westminster	1·19	3	27	0·78	29					
Midland	3·00	6	24	1·90	29					Thunder 9th 22nd. Hurri-
Croydon	2·80	3	27	1·10	29					[cane hail.
Wooler	2·86	4	26	1·37	22					Thunder 22nd.
Sydenham	1·64	5	25	2·10	3					
Strathroy	1·84	5	25	1·17	29					
Montague	2·76	5	25	0·97	3					22nd thunder, heavy.
Aurora	3·52	6	24	0·88	26					Thunder 2nd, 13th, 30th.
MacCue	2·91	5	25	0·86	3					Frost 24th, 30th.
Watford	1·40	3	27	0·98	29					
Georgetown	1·61	9	21	0·52	29					Aurora 3rd. Thunder 2, 22.
Ensdale	2·44	7	23	1·53	30					Thunder 9, 22, 26. Frost 1, 4.
Arden	2·34	5	25	0·73	3					Thunder 3rd, 19th, 23rd.
Lansdowne	3·81	7	23	1·82	3					Thunder 19th.
Parma	1·52	4	26	0·30	22					
Deer Park	2·69	4	25	0·88	30					
Goderich	1·90	4	26	1·00	30					
Pinisi Bay	4·10	8	22	1·32	26					
Lake Talon	1·03	8	22	1·30	26					
Kishkoqui Lake	2·59	7	24	1·22	22					
Britannia Bay	2·56	6	24	1·60	29					Thunder 9th, 13th.
Fitzroy Harbour	2·27	6	24	0·97	29					
Turtle Dam	2·60	7	23	0·13	22					
White Fish	2·65	7	23	1·11	22					
Menard's Bridge	2·66	7	23	1·25	22					
Nasbonsing Lake	2·46	7	23	1·22	22					
Winchester Springs	2·50	5	25	0·90	3					
QUEBEC—										
Bryson	1·70	3	26	1·30	29					
NEW BRUNSWICK—										
Point Escuminac	2·30	8	22	0·77	23					

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF SEPTEMBER, 1906.

	Hours Ending														
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	0·00	0·00	0·07	0·34	0·43	0·50	0·60	0·60	0·57	0·51	0·48	0·41	0·40	0·11	0·00	0·00
Nanaimo	0·00	0·00	0·04	0·36	0·48	0·55	0·60	0·47	0·48	0·44	0·37	0·30	0·29	0·09	0·00	0·00
Agassiz	0·00	0·00	0·00	0·01	0·36	0·50	0·55	0·52	0·59	0·46	0·35	0·29	0·19	0·00	0·00	0·00
Kamloops	0·00	0·00	0·14	0·38	0·43	0·47	0·50	0·46	0·48	0·47	0·33	0·23	0·04	0·00	0·00	0·00
Edmonton	0·00	0·00	0·09	0·41	0·55	0·61	0·61	0·62	0·62	0·54	0·52	0·15	0·28	0·05	0·00	0·00
Battleford	0·00	0·01	0·21	0·41	0·50	0·51	0·61	0·50	0·48	0·49	0·47	0·52	0·48	0·28	0·01	0·00
Calgary	0·00	0·00	0·13	0·41	0·63	0·68	0·76	0·64	0·72	0·66	0·69	0·51	0·31	0·21	0·01	0·00
Medicine Hat	0·00	0·02	0·18	0·54	0·63	0·69	0·77	0·81	0·80	0·65	0·66	0·72	0·71	0·30	0·00	0·00
Indian Head	0·00	0·00	0·08	0·31	0·69	0·70	0·75	0·75	0·78	0·73	0·76	0·74	0·46	0·02	0·00	0·00
Brandon	0·00	0·00	0·02	0·45	0·72	0·76	0·82	0·79	0·77	0·76	0·70	0·72	0·59	0·20	0·00	0·00
Winnipeg	0·00	0·04	0·41	0·59	0·66	0·73	0·74	0·73	0·73	0·74	0·68	0·52	0·38	0·20	0·01	0·00
Woodstock	0·00	0·00	0·18	0·42	0·67	0·68	0·75	0·81	0·78	0·80	0·81	0·76	0·66	0·22	S	0·00
Toronto	0·00	0·00	0·07	0·59	0·81	0·76	0·80	0·84	0·84	0·88	0·83	0·75	0·71	0·24	0·00	0·00
Lindsay	0·00	S	0·34	0·63	0·68	0·74	0·75	0·80	0·80	0·78	0·74	0·77	0·74	0·72	0·18	0·00
Kingston	0·00	0·04	0·21	0·46	0·65	0·81	0·81	0·84	0·76	0·82	0·82	0·83	0·69	0·31	0·04	0·00
Haileybury	0·00	0·04	0·16	0·45	0·55	0·62	0·65	0·69	0·71	0·77	0·74	0·63	0·50	0·21	0·01	0·00
Barrie	0·00	0·00	0·20	0·60	0·74	0·79	0·85	0·81	0·84	0·85	0·82	0·80	0·69	0·28	0·00	0·00
Ottawa	0·00	0·00	0·04	0·41	0·58	0·68	0·79	0·82	0·79	0·82	0·79	0·72	0·56	0·15	0·00	0·00
Gravenhurst	0·00	0·00	0·25	0·70	0·80	0·81	0·79	0·81	0·78	0·75	0·75	0·75	0·71	0·64	0·12	0·00
Montreal	0·00	0·00	0·16	0·40	0·59	0·67	0·72	0·76	0·77	0·79	0·75	0·72	0·34	0·05	0·00	0·00
Sherbrooke	0·00	0·05	0·23	0·47	0·65	0·70	0·74	0·76	0·70	0·68	0·70	0·64	0·61	0·29	S	0·00
Quebec	0·00	0·00	0·16	0·51	0·64	0·65	0·62	0·66	0·64	0·71	0·65	0·68	0·65	0·09	0·00	0·00
Charlottetown	0·00	0·06	0·25	0·61	0·70	0·69	0·73	0·75	0·74	0·72	0·69	0·67	0·60	0·27	0·04	0·00

	Victoria.	Nanaimo.	Agassiz.	Kamloops.	Edmonton.	Battleford.	Calgary.	Medicine Hat.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Kingston.	Haileybury.	Barrie.	Ottawa.	Gravenhurst.	Montreal.	Sherbrooke.	Quebec.	Charlotte'wn
Mean proportion for month... (*Constant sunshine being 1*)	0·40	0·36	0·31	0·30	0·12	0·43	0·51	0·59	0·54	0·58	0·57	0·60	0·67	0·70	0·65	0·53	0·66	0·57	0·76	0·67	0·58	0·53	0·60
Difference from average	−0·5	—	0·00		—	0·02	-		+0·15	+0·12	+0·11	+0·11	+0·10	+0·18	+0·14	—	+0·18	+0·11	—	+0·14	—	—	—
Maximum daily amount	0·88	0·84	0·74	0·80	0·85	0·85	0·81	0·92	0·84	0·87	0·93	0·90	0·86	0·98	0·97	0·95	0·89	0·88	1·00	1·00	0·93	0·89	0·95
Date	9	27	28	29	1	19	2	6	2	20	2	3	1	1	1	4	4	27	24	10	5	28	5
No. of days completely clouded	4	7	9	10	4	6	2	0	4	3	3	3	1	1	1	1	1	1	1	2	1	1	1

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

1. Gray Hill, IV.

3. Gravenhurst, II ; Rutherglen, Gray Hill, IV.

4. Atlin, IV ; Quebec, Insinger, IV.

11. Qu'Appelle, IV ; Aweme, III ; Grenfell, IV ; Chaplin, IV.

12. Hillview, IV ; Aweme, III . Kenora, IV.

13. Aweme, II ; Threehills Creek, III ; Kenora, IV, Gray Hill.

14. Sangeen, IV ; Father Point, III ; Threehills Creek, IV ; Waitefield, IV ; Cape Chatte, II.

15. Gravenhurst, IV ; Father Point, III ; Huntsville, IV ; Hillsdown, IV ; Waitefield, III; Cape Chatte, III, Gray Hill, III.

16. Edmonton, IV ; Hillview, IV ; Aweme, IV ; Waitefield, IV; Gray Hill, IV.

17. Qu'Appelle, IV ; Hillview, IV; Aweme, II ; Threehills Creek, IV ; Chaplin, IV ; Kenora, IV ; Cape Chatte, II ; Gray Hill, IV.

18. Prince Albert, II.

19. Aweme, III ; Threehills Creek, IV ; Grenfell, III ; Moose Jaw, Foxleigh, Kenora, IV.

20. Truro, IV ; Minnedosa, II ; Treherne, Kenora, IV.

21. Minnedosa, III ; Atlin, IV ; Kenora, III ; Cottam.

22. Truro, III ; Charlottetown, I ; Atlin, IV ; Treherne, Aweme, IV ; Threehills Creek, III ; Lucknow, IV ; Birnam, IV ; Sable Island.

23. Atlin, IV ; Quebec, IV ; Port Arthur, II ; Grenfell, IV ; Cape Chatte, III.

24. Prince Albert, I ; Minnedosa, II ; Quebec, IV ; Treherne, Aweme, IV.

25. Atlin, IV ; Quebec, IV ; Threehills Creek, IV ; Madoc, III.

29. Prince Albert, I.

30. Quebec, III ; Rutherglen.

Thunder recorded on :—

1. Truro, Battleford, Minnedosa, Winnipeg, Bermuda, Chaplin, Scarboro, Hillview, Almasippi.

2. Lindsay, Gravenhurst, Winnipeg, Montreal, Parry Sound, Sangeen, Wiarton, Ennismore, Midland, Aurora, Georgetown, Bon Accord, Madoc, Ursa, Scarboro, Lakefield, Port Hope, Point Clark, Agincourt, Abitibi, Toronto, Alton, Orillia.

3. Lindsay, Montreal, Bermuda, Kingston, Croydon, Arden, Sutton, Kenora, Bala, Peterboro, Otonabee, N. Bruce, Brome, Gray Hill.

4. Kenora.

6. Truro, Abitibi.

7. Grand Manan, Rossland, Brome, Haileybury.

8. Battleford, Quebec, Banff, Bardo, Beaver Hills W, Island Lake, Victoria (Alta), Rossland, Sutton, Salmon Arm, Uplands, Shawinigan Falls, Vancouver.

9. Renfrew, New Westminster, Montreal, Quebec, Ottawa, Midland, Emsdale, Threehills Creek, N. Gower, Clontarf, Rutherglen, Brome.

10. Denman Island.

11. Lindsay, Port Arthur, Sutton, Madoc, Owen Sound, Bruce Mines, Point Clark, Cockburn Island, Cottam, Orillia.

12. Montreal, Bermuda, Saugeen, Wiarton, Westport, Clinton, N. Bruce, Lucknow, Birnam, Owen Sound, Bruce Mines, Point Clark, Cockburn Island, Chicoutimi, Haileybury.

13. Renfrew, Lindsay, Quebec, Father Point, Aurora, Moose Jaw, Ursa, Scarboro, Lakefield, Otonabee, Agincourt, Brome, Shawinigan Falls, Chicoutimi, Toronto, Alton, Haileybury.

14. Qu'Appelle, Montreal, Ottawa, Gatesgarth, Chaplin, Sutton, Hamilton, Summerside, Moncton, Point Le Preaux, Sable Island.

15. Bermuda.

16. Renfrew, Victoria (Alta).

17. Ursa, Cockburn Island.

18. Westport, Ursa.

19. Arden, Lansdowne.

20. Port Stanley, Aurora, Lucknow, Alton.

21. Renfrew, Sutton, N. Bruce, Port Hope, Bruce Mines, Cockburn Island.

22. Lindsay, Gravenhurst, Montreal, Saugeen, Ottawa, Huntsville, Westport, Croydon, Wooler, Montague, Georgetown, Emsdale, Deer Park, Foxleigh, N.Gower, Madoc, Ursa, Uplands, Bala, Peterboro', Otonabee, Port Hope, Rutherglen, Agincourt, Brome, Toronto, Orillia.

23. Winnipeg, Arden, Quesnel, Sutton, Ursa, Lakefield.

24. Kenora, Hillview, Almasippi.

25. Winnipeg, Bermuda, Birnam.

26. Lindsay, Bermuda, Parry Sound, Dutton, Ursa, Rutherglen.

27. Sutton, N. Bruce.

29. London, Port Stanley, Port Burwell, Stony Creek.

FORECASTS FOR SEPTEMBER, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1227. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	75	56	17	2	86·0
Saskatchewan	73	53	17	3	84·2
Manitoba	76	61	11	4	87·5
Lake Superior	98	76	18	4	86·7
Lower Lake Region	111	91	18	2	90·1
Georgian Bay	111	89	18	4	88·3
Ottawa Valley	102	78	16	8	84·3
Upper St. Lawrence	102	83	11	8	86·8
Lower St. Lawrence	120	81	23	13	79·6
Gulf	121	81	31	9	79·7
Maritime Provinces, West	119	94	18	7	86·6
Maritime Provinces, East	119	96	14	9	86·6
Total	1227	942	212	73	85·4

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th October, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXX. OCTOBER, 1906. No. 10.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was somewhat warm and exceedingly wet, the temperature remaining quite high untilabout the 17th, when it turned cooler in most districts and continued so until the end of the month. The chief wet periods were the first four or five days, from the 10th to 19th and 23rd to 27th, much dull weather prevailing during these periods. The proportion of bright sunshine was below the average over the mainland whilst on Vancouver Island it was normal. Frosts were recorded occasionally and on or about the 21st they were severe over the Upper Mainland. After the date referred to the trees were quickly denuded of leaves.

In the Western Provinces the weather was warmer than usual and although frosts occurred almost every night the temperature during the day up to the 17th frequently exceeded 60° and occasionally 70° Somewhat cooler weather then occurred and continued to the 31st. The rainfall was heavy in most districts, the chief wet periods occurring on or about the 3rd to 5th, 11th, 15th, 24th and 28th. The first fall of snow of any importance was reported from many districts on the 28th. Throughout the greater portion of the month there was much bright sunshine and the precipitation exceeded the average generally. Frosts were of frequent occurrence and the trees were bared early in the month.

The weather in Manitoba was quite similar to that in the provinces to the westward, the mean temperature and rainfall exceeding the average at most places ; there was, however, less bright sunshine and the mean proportion was below the average. Precipitation was general on or about the 5th, 15th to 18th and 28th, snow occurring at most places on the latter date. Temperatures exceeding 70 were occasionally recorded up to the 18th when cooler weather set in and continued to the end of the month. Frosts were frequent but they were not severe until after the 19th, when vegetation assumed a winter like appearance.

The weather in Ontario was slightly milder than usual and with the exception of a cool period about the 10th to 12th it was comparatively warm up to the 21st when it turned somewhat cooler and continued so to the 31st. At Ottawa the mean proportion of bright sunshine exceeded the average, but elsewhere it was generally below, much dull weather with occasional rain occurring between the 4th and 11th and 18th to 31st. Frosts were somewhat frequent and on or about the 12th and 30th they were quite severe. Gales were reported on the Great Lakes on the 6th, 8th, 9th, 10th, 27th and 28th. On the 31st a few wild plants were still in bloom and some trees retained their leaves.

In the Province of Quebec the weather was milder than usual and in the western portion of the province maximum temperatures between the 2nd and 6th and 11th to 20th generally exceeded 60 at most places. In eastern districts the weather was somewhat cooler and 60 was seldom recorded. Much fine bright weather prevailed more especially between the 1st and 5th and 10th to 18th Rain occurred frequently between the 6th and 11th and 20th to 29th it being excessive in the western portion of the province. Frosts occurred quite frequently.

The weather in New Brunswick was somewhat milder than usual and temperatures between 60 and 70° were occasionally recorded during the month. Bright weather prevailed, and the precipitation which occurred chiefly on or about the 8th, 11th, 16th, 23rd, 28th and 31st was in the aggregate below the average at all stations excepting Point Lepreaux, where, on the contrary, it was above Gales were reported on the 7th, 10th and 25th. Frosts at night occurred frequently but in most instances they were light.

In Nova Scotia the weather was slightly milder than usual and temperatures exceeding 60° were recorded quite frequently in most districts. Fine bright weather prevailed during the first week, also from the 13th to 22nd, the chief falls of rain occurring on or about the 7th, 11th, 23rd, 25th, and 31st. Heavy south-west gales were reported on the 7th and 25th and there was a more moderate gale on the 10th. Frosts were reported occasionally but they were less frequent than in provinces west of Nova Scotia.

The weather in Prince Edward Island was mostly mild and dry the mean temperatures exceeding the average and the rainfall being below. Much fine bright weather was reported, more especially from the 12th to 22nd when the sunshine was almost continuous. Rain was recorded on or about the 7th, 11th, 16th and frequently between the 21st and 29th. Light frosts were noted on a few days only.—F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for October was subnormal over the Southern portions of Alberta and Saskatchewan, also from Manitoba to Western Quebec; elsewhere in Canada the normal value was exceeded. The extremes of departure from the average were −0·07 of an inch at Qu'Appelle and +0·20 of an inch at Sydney, N.S.

HIGH AREAS.

During October eight systems of high barometric pressure were charted and in addition, there were several others, chiefly affecting the Pacific Coast Region, the tracks of which were too uncertain to admit of plotting.

Three areas assumed a northern circuit from the Prairie Provinces to the Gulf of St. Lawrence and three a southern, one reached and dispersed over the Lake Region and one over the Southern States. The majority of the systems were observed during the latter half of the month, the first two weeks being almost entirely under the influence of cyclonic conditions.

Some few of the areas were very pronounced, and sharp frosts occurred in most districts during their presence.

LOW AREAS.

Ten areas of low pressure were sufficiently defined to permit of their paths being accurately charted. The two first appeared in the Southwest States in the vicinity of Texas, one off the south coast, of Florida, and the large remainder drifted into the continent from the far Northern Pacific over the Alaska Coasts; in fact the general drift of the depressions so far to the northward was a marked feature of the pressure changes of the month.

The area which appeared over Texas on the 4th and progressed quickly northeastward with rapidly increasing energy, reached the Gulf of St. Lawrence on the 6th and caused the most severe storm of the series in Eastern Canada and the area which drifted on to the coast of Alaska on the 23rd, and subsequently travelled across the Dominion was responsible for the heaviest storm of the month over the Great Lakes.

WINDS.

In British Columbia in Vancouver Island and over the Mainland the direction was variable seven days with strong and eight with fresh breezes and two gales.

In Alberta and Saskatchewan the westerly direction was most in evidence with six days strong and sixteen with fresh breezes and four gales.

In Manitoba the direction was more or less variable with seven days strong and eleven with fresh breezes and five gales.

In the Lake Region the direction was variable with seven days strong and six with fresh breezes and five gales.

In the Ottawa and Upper St. Lawrence Valley the direction was variable with six days with strong and eight with fresh breezes and four gales.

In the Lower St. Lawrence Valley and the Gulf of St. Lawrence the south and west directions predominated with seven days strong and twelve with fresh breezes and four gales.

In the Maritime Provinces the direction was largely variable but slightly to the south and west with four days with strong and seven with fresh breezes and four gales.

The gales occurring from the Great Lakes to the Maritime Provinces were all successfully warned but a warning issued to St. Lawrence and Ocean Stations on the 19th was not justified by a subsequent gale.

TEMPERATURE.

The mean temperature of October was higher than the average in nearly all parts of the Dominion with the largest positive departures, ranging between 3° and 5° in the more central portions of New Brunswick and Quebec and in Southern Alberta and Saskatchewan.

The frosts recorded in the various Provinces were not unusually severe, and in Western Canada they were less pronounced than average.

The Highest and Lowest temperatures in each Province during October, 1906, were :

British Columbia,	88° ·0 on 24th at Hedley,	15° ·0 on 21st at Princeton.
Alberta,	86° ·0 on 10th at Nanton,	5° ·0 on 21st at Macleod.
Saskatchewan	80° ·0 on 11th at Gatesgarth,	10° ·2 on 27th at Lloydminster.
Manitoba,	80° ·0 on 1st at Virden,	2° ·0 on 30th at Oakbank.
Ontario,	81° ·0 on 9th at Paris,	1° ·0 on 31st at White River.
Quebec,	73° ·7 on 6th at Sherbrooke,	19° ·0 on 24th at Abitibi.
New Brunswick,	78° ·0 on 6th at Chatham,	18° ·0 on 17th at Sussex.
Nova Scotia,	74° ·5 on 6th at Windsor,	23° ·0 on 14th at Truro.
Prince Edward Island,	71° ·0 on 7th at Hamilton,	27° ·0 on 23rd at Hamilton.

PRECIPITATION.

The precipitation was in excess of the normal in British Columbia, in Ontario east of Lake Superior, and in Quebec, while in the Western Provinces and in the Maritime Provinces there was a deficiency. The excess near the Pacific coast appears to have been most pronounced on Vancouver Island and on the Upper Mainland with more average conditions on the Lower Mainland. In Ontario the excess was almost general and probably averaged about one-third more than the normal ; in Quebec the normal was only slightly exceeded in western and eastern districts and was not reached in the central portion. Heavy local snowfalls occurred on the high lands of Western Ontario on or about the 10th and a light fall occurred in Southern Ontario on the 29th. In other parts of Canada the snow recorded, if any, was little beyond a flurry.

BRIGHT SUNSHINE.

In October Bright Sunshine was deficient except in Western Manitoba, Northern Ontario and the Ottawa Valley where the amount recorded exceeded the average. Extremes of departures from normal were —12% at Agassiz, B.C. and + 9% at Brandon, Man. The maximum daily amount recorded in Canada was 98% at Battleford, Sask., on the 10th, and a like amount at Charlottetown, P.E.I. on the 13th.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, OCTOBER, 1906

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observ'n	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
				in.	in.	in.	in.																																	
BRITISH COLUMBIA																																								
Victoria	48	21	123	19	85	30·09	30·69	29·53	1·16	52·0	+ 1·2	15	69·8	9	31·0	21	10·7			7	7	163	98	43	88	87	118	88	26	3	741	8·6	23·0	3 SW	5·69	-3·17	1·83	18	9	0	0	1
Barkerville	53	2	121	35	4180	29·91	30·68	29·33	1·35	38·3	- 0·2	18	78·0	9	20·0	20	12·9			8	6	1	0	0	0	10	1	1	0	49	62		10·0	2 S	6·32	-3·77	1·20	23	8	0	2	0
Agassiz	49	14	121	31	52					50·6	+ 2·0	14	74·0	8	32·0	19	24·7																	0·18	-3·14	1·08	15	16	0	0	0
Port Simpson	54	31	130	26	26	29·82	30·6	29·12	1·48	48·0	+ 1·0	20	65·3	9	32·8	31	7·2			9	17	0	0	17	9	17	1	3	0	15	62		16·0	21 SE	11·59	0·83	1·29	28	3	0	1	0
Revelstoke	51	0	118	6	1476					41·6		7	62·0	8	27·0	22	11·1																	6·54		1·83	22	9	0	0	0
Kamloops	50	41	120	29	1193	29·95	30·70	29·36	1·34	50·4	- 2·2	12	72·6	9	23·4	21	17·3			7	12	9	17	97	34	52	9	0	0	535	741	2·1	16·0	24 SE	1·28	-0·82	1·08	5	25	0	0	0
Princeton	49	29	120	29	1650					45·0	+ 1·1	12	78·0	9	15·0	21	25·1																	1·25	-0·18	0·67	11	20	0	0	3
Pilot Bay	49	39	116	55	2000																																				
Rivers Inlet	51	39	127	19	20	30·03	30·73	29·10	1·63	47·3	- 6·3	13	66·7	9	31·6	21	7·6			8	16	1	1	6	49	0	5	3	0	28	93	11	19	26 SE	26·85	+14·8	2·91	26	5	0	0	3
Stuart's Lake	54	28	124	12	2289																																				
Coldstream	50	14	119	15	1216					48·7	+ 3·9	11	72·0	9	24·0	19	17·7																	1·12	+0·46	0·73	9	22	0	0	0
a Nanaimo	49	10	123	57		29·96	30·59	29·35	1·24	50·1	-	6	68·7	9	29·0	22	13·3	47·1	91	6	4	1	1	1	22	5	6	6	11	37	93				5·29		1·07	18	13	0	0	0
Chilliwack	49	10	131	57	21	30·11	30·72	29·55	1·17	51·4	+ 1·7	10	75·4	9	33·3	21	12·8			7	11	9	5	24	10	17	17	9	2	0	93				12·60	+7·67	1·90	21	10	0	1	0
Winter Harbor	50	32	128	3						19·5	+ 0·7	11	63·0	9	36·0	21	9·2					0	0	0	10	2	9	5	5	0	31				25·55	+12·80	2·90	27	4	0	0	0
Salmon Arm	50	12	119	18	1215					47·9		5	70·0	9	28·0	20	11·1																	2·95		1·60	11	17	0	0	0
Nicola Lake	50	9	120	39	2120					45·2	+ 1·2	11	69·0	9	20·0	21	19·1																	0·80	0·21	0·35	6	25	0	0	0
Garry Point	49	21	123	17						49·1	+ 1·2	11	66·0	9	28·0	20	13·9																	4·88	+1·19	0·89	15	16	0	0	2
Tobacco Plains	49	1	115	5	2681					48·9	+ 5·2	11	74·1	7	23·0	21	17·8																	1·50	+0·50	0·36	8	23	0	0	0
a Vancouver	49	17	123	5	136	30·07	30·69	29·53	1·16	50·2			2·69	9	29·6	20	13·2			7	11	0	0	16	18	1	6	3	1	11	62		15·0	3 W	7·60		1·15	23	7	0	0	5
New Westminster	49	13	122	54	330	30·08	30·68	29·52	1·16	50·6	- 0·3	13	75·3	9	29·6	21	13·3			6	9	0	3	14	1	3	17	0	1	23	62		12·0	16 S	8·61	+3·02	1·18	22	9	0	0	0
Ladner	49	5	123	4						50·2			4·69	8	25·0	20	13·0																	1·37		0·85	13	18	0	0	-
North Nicomen	49	12	122	2	59					51·7	+ 1·1	13	71·0	8	31·0	21	13·1																	13·70	-6·70	2·62	20	8	0	0	0
Quesnelle	52	59	122	30	1700					43·7	- 3·0	12	73·0	8	25·0	20	18·5																	2·90	-1·91	0·40	11	20	0	0	20
Clayoquot	49	11	125	17	10					52·2	—	5	73·0	10	33·0	20	12·1																	20·82		2·89	22	9	0	0	0
Cranbrook	49	30	115	50	2900																																				
Massett	53	58	132	9	30					47·7		8	62·0	15	32·0	31	12·6					5	11	10	28	0	1	0	7	0	62				3·70		0·70	17	14	0	0	0
Bullion	52	45	121	55	2275					4·6	0·0	10	67·0	8	21·0	20	16·2																	3·53	-1·94	0·51	20	11	0	0	0
Bella Coola	52	40	126	54	150					47·1		7	69·0	10	28·0	20	11·1																	12·72		2·43	24	7	0	0	0
Cowichan	48	25	123	42	170																																				
Nelson	49	29	117	21	1769					48·6		6	73·0	5	26·0	21	22·0																	2·42		0·69	11	16	0	1	0
Okanagan Mission	49	52	119	29	1200					48·1		7	69·0	9	21·0	21	19·7																	1·27		0·22	11	14	0	0	0
Alberni	49	15	124	49	300					52·3	+ 0·8	12	80·1	10	30·9	20	17·1																	11·27	5·52	1·69	20	11	0	1	0
Kuper Island	48	58	123	38	10																																				
Cape Scott	50	18	128	27						19·2		9	63·0	8	35·0	20	9·1																	22·11		2·50	26	5	0	0	0
Glacier	51	11	117	29	1072																																				
Golden	51	16	116	55	2550																																				
Spence's Bridge	50	25	121	30	760																																				
Bamfield	48	50	125	9		30·03	30·63	29·40	1·23	18·8		4	68·7	8	32·5	20	11·6					6	0	9	40	1	1	7	0	29	93				8·14		1·23	20	11	2	0	1
Big Creek	51	10	123	0						10·0		3	72·0	9	17·0	31	22·8																	0·99		0·30	5	26	0	0	0
Nickel Plate	49	30	120	0	5400					37·7		3	62·0	8	16·0	20	15·1																	1·79		0·50	12	19	0	0	0
Thetis Island	49	0	123	40						50·4		3	69·0	9	30·7	21	15·0																	4·90		0·98	21	15	0	0	0
Hedley										19·0	—	3	88·0	21	22·0	20	26·4																	0·37		0·16	7	23	0	0	0
Kitamaat	53	59	128	12						14·5		4	60·0	10	30·0	31	9·9					12	0	0	0	9	5	1	0	4	31				18·10	—	2·26	25	6	0	0	0
Rossland	49	5	117	48	3400					14·8	—	3	61·8	8	27·0	21	15·1																	1·59		0·67	8	23	0	0	0
*Port Essington	54	9	129	55	10																																				
Atlin	59	35	133	38	2240	29·75	30·42	29·29	1·13	37·9	—	1	54·0	9	23·5	31	10·0			8	9	6	8	7	5	23	0	1	0	12	62		V	5 S	1·45		0·21	17	14	0	0	0
Athalmur										44·5	—	1	70·0	1	17·0	22	24·4																	1·02		0·61	4	27	0	0	0
YUKON :—																																								
a Dawson	64	4	139	20	1200																																				
White Horse	60	45	135	0	2075					37·2	—	2	61·0	10	9·0	31	16·4																	0·30		0·13	3	28	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, OCTOBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
MANITOBA—*Con.*	° ′	° ′		in.	in.	in.	in.	°																																
Oakbank	49 57	96 42	740					40·2	+ 1·1	11	71·0	3	2·0	30	18·2																		0·56	−0·87	0·87	3	25	0	0	0
Oakdale Park	49 11	100 18						43·2	—	5	74·0	3	14·0	21	21·0																		1·09	—	0·55	3	28	0	0	0
Pipestone	49 34	100 58	1100																																					
Portage la Prairie	49 57	98 17	830					40·6	− 1·3	16	75·0	1	13·0	30	21·9																		0·53	−0·67	0·31	4	27	0	0	0
Pierson	49 11	101 15	1531																																					
*aSt. Albans (Aweme)	49 42	99 33	1180	28·61	29·10	28·19	0·91	42·9	+ 1·3	22	78·5	3	15·0	30	23·6																		1·17	+0·11	0·42	7	24	6	0	0
Stony Mountain	50 4	97 14	803																																					
Treherne	49 36	98 40	1212					39·6	+ 2·3	11	71·0	12	6·0	30	23·6																									
Virden	49 51	100 55	1444					40·5		1	80·0	1	9·0	19, 11	1																									
Winnipeg	49 53	97 7	760	29·96	30·63	29·30	1·33	41·7	+ 1·7	33	72·0	1	5·8	30	21·9			6	6	11	5	2	1	19	6	3	12	3	62		50·0	8S W	0·21	−1·40	0·07	3	21	0	0	0
ONTARIO—																																							
Haileybury	47 29	79 39	687	30·02	30·66	29·33	1·33	41·1	+ 1·6	12	76·1	4	18·2	30	17·9			7	6	6	1	2	2	13	6	8	15	9	62	II	IV	28NW	3·02	—	0·50	11	15	2	1	0
Savanne	48 55	90 18	1506																																					
Cottam	42 7	82 45	606					51·2	+ 0·5	18	80·0	14	21·0	11	21·3																									
Brantford	43 10	80 21	750					47·0	− 0·9	26	75·0	5	19·0	31						19	2	2	11	5	12	7	4	0	62				5·49	+2·77	1·10	11	20	0	1	0
Parry Sound	45 19	80 0	635	30·03	30·63	29·23	1·40	47·2	+ 1·4	30	75·0	16	20·0	30	19·5			6	10	135	61	33	203	35	107	49	119	2	744	9·6	18·0	8 SE	5·96	+2·08	1·11	11	16	0	3	0
Owen Sound	44 34	80 55	597					47·7	+ 0·2	28	75·0	15	26·0	12	18	3				13	4	9	11	23	2	3	20	0	85				3·85	+0·18	0·85	14	17	0	2	0
Beatrice	45 8	79 20	800					41·9	+ 1·6	18	71·0	16	22·0	30	19·0			6	10	6	0	0	7	16	4	0	16	14	93	I	V	8 S	6·09	+2·68	1·57	16	15	0	2	1
Coldwater	44 38	79 40	600																																					
Gravenhurst	44 51	79 20	770					46·4	+ 1·4	36	74·0	16	26·0	29	19·2			5	4	19	2	15	11	26	5	8	2	5	93	III	VI	28 W	4·47	+1·16	1·44	13	18	0	0	0
Haliburton	45 1	78 28	1050					45·4	+ 1·4	19	76·0	14	21·0	12	21 6																		2·90	+0·29	1·03	6	21	1	0	0
*Point Clark	44 5	81 44	595					50·4	+ 1·0	36	80·0	17	29·0	31				1	1	28	4	9	7	34	0	6	5	0	93	V	X	27 S	2·46	−0·28	0·78	5	26	0	0	0
Birnam	43 2	81 55	600					48·6	− 0·2	23	72·1	5	23·0	12	14·2					22	3	3	5	14	1	4	9	1	62				7·97	+5·08	1·62	11	19	0	1	1
London	42 59	81 13	808	30·01	30·57	29·18	1·39	48·8	+ 0·3	22	74·0	16	26·0	12	19·6		84	6	7	9	12	9	3	9	18	30	30	0	93	I	V	27 NW	5·80	+2·95	1·20	11	17	0	1	1
Port Stanley	42 40	81 13	592	30·04	30·61	29·24	1·37	49·9	+ 0·6	31	70·1	5	26·3	31	16·6			6	9	4	7	17	6	1	8	9	10	6	62		33·3	27 SW	4·66	+1·78	0·70	15	15	0	3	3
Woodstock	43 8	80 47	980	30·03	30·67	29·20	1·47	47·2	+ 0·1	31	71·5	5	21·0	31	18·6																		4·50	+1·17	1·00	13	18	0	0	0
Port Dover	42 47	80 13	635					48·7	− 0·9	31	70·5	5	24·1	31	13·9																		4·87	+2·39	1·00	17	14	0	0	0
Pelee Island	41 50	82 38	585					50·7	− 3·5	26	68·0	5	32·0	31	8·4																		2·35	+0·42	0·78	4	27	0	0	0
Paris	43 12	80 25	810					51·7	+ 3·0	17	81·0	9	25·0	31	24 1																		5·36	+2·36	1·00	13	18	0	1	1
Bancroft	45 1	77 50						44·0	+ 1·0	15	78·0	14	15·0	31	21·9																		3·76	+0·69	1·91	5	26	0	0	0
Rutherglen	46 15	78 48						45·0	+ 2·1	11	77·2	4	18·5	11	22·2																		2·71	−0·20	0·75	6	25	1	2	5
Agincourt	43 47	79 16	590					47·5	1·2	10	74·0	16	21·0	12	17·0																		4·22	−0·08	2·07	9	22	0	1	4
Hamilton	43 16	79 51	303																																					
Port Hope	43 56	78 20						48·8	+ 0·5	10	72·0	5	25·0	30	15·2																		4·81	+2·44	2·49	7	24	0	0	0
Kinmount	44 45	78 38	920																																					
Cockburn Island	45 57	83 18	610					45·3	—	9	73·0	15	21·0	30	16·1					10	7	2	13	12	3	7	4	4	62				4·07	—	1·48	8	23	0	1	3
Chatham	42 23	82 12	595					51·3	+ 1·1	20	75·0	16	28·0	12	17·2																		5·41	+2·87	0·95	8	23	0	0	0
Meaford	44 37	80 37	600					47·2	—	8	75·0	6	26·0	12	11·1					17	3	7	4	11	11	3	4	2	62				5·10	—	1·14	13	18	0	1	0
Listowel	43 44	80 58	1262																																					
Bruce Mines	46 18	83 55	595					41·7	—	8	74·0	3	41·0	31	17·8																		3·65	—	1·97	8	23	0	0	2
Kenora	49 48	94 32	1102																																					
Sturgeon Falls	46 16	79 51																																						
Uplands	45 48	79 25						43·7	+ 0·9	21	77·0	15	15·0	30	25·4																		2·05	−1·25	0·37	12	19	0	3	0
Toronto	43 40	79 24	350	30·01	30·60	29·29	1·31	48·3	+ 1·5	65	73·0	5	26·4	31	15·7		43·9	81	6	5	106	102	201	52	40	71	63	101	8	741	13·6	27·4	24 E	4·49	+2·07	2·16	13	16	0	1	2
Welland	42 59	79 17	577					49·7	0·2	21	71·0	17	26·0	12	17·4																		7·36	+4·95	2·28	13	16	0	0	0
Peterborough	44 17	78 19	722					47·4	+ 0·7	36	75·0	15	22·0	12	22·6																		4·53	+1·72	2·10	9	22	0	0	0
Lindsay	44 20	78 45	872	30·01	30·57	29·34	1·23	47·5	+ 2·8	27	74·0	16	21·0	31	19·25			6	10	12	1	2	7	26	3	8	10	24	93	II	IV	28 N	3·74	+1 11	1·39	15	16	0	2	2
Deseronto	44 11	77 4	261																																					
Lakefield	44 25	78 15						47·5	− 0·9	23	75·0	5	25·0	30	17·0																		3·45	+1·38	1·25	9	23	0	3	0
Kingston	44 13	76 29	285	30·06	30·53	29·30	1·23	49·1	+ 0·7	32	71·6	4	27·8	12	16·0			6	9	6	20	2	7	2	10	7	7	1	62		25·0	28 SW	5·48	+2·74	1·85	14	15	0	0	3
Clontarf	45 23	77 9						52·0	—	19	76·0	15	31·7	10	16·1																		3·91	+1·58	1·41	8	23	0	1	0
Ottawa	45 26	75 42	291	30·02	30·49	29·21	1·28	46·8	+ 1·8	23	73·0	4	27·0	30	16·6			6	6	3	2	14	7	5	5	14	8	4	62				3·36	+0·83	1·09	9	18	0	0	2
Rockliffe	46 9	78 6	557	30·01	30·59	29·22	1·37	45·0	+ 1·6	29	76·0	45	22·0	12	20·3					1	1	13	0	1	0	7	0	39	62				3·09	+0·60	0·94	8	23	0	0	1
*Sarnia	42 59	82 24	586					46·2	— 2·4	12	70·0	3	23·0	12	—					5	0	7	5	7	13	6	8	42	93				5·33	+2·05	1·94	8	23	0	0	1

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, OCTOBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA—																																									
Halifax	44	39	63	36	88	30·14	30·60	29·19	1·41	49·6	+ 1·1	32	73·0	5	29·7	25	20·1	...	...	5	9	167	104	65	20	81	101	78	65	63	744	8·0	23·5	7 W	3·99	−1·51	1·23	9	20	0	1	3
Sydney	46	10	60	10	35	30·18	30·59	29·26	1·33	47·9	+ 0·7	33	72·0	19	26·0	25	20·3	...	...	6	13	38	37	19	33	26	208	2	106	275	744	2·3	10·0	10 S	4·11	−0·53	1·20	12	19	0	0	3
*a*Truro	45	22	63	18	...	30·06	30·53	28·99	1·54	47·8	+ 1·6	32	72·1	20	23·0	14	27·4	...	...	...	...	2	14	1	6	7	25	8	6	24	93	...	...	...	3·78	−0·80	1·45	8	23	0	0	4
Yarmouth	43	50	66	2	65	30·13	30·61	29·32	1·29	49·5	+ 1·4	26	69·2	20	32·0	13	17·4	...	...	4	4	67	106	78	70	173	46	88	105	11	744	8·7	27·0	10 S	3·15	−1·43	1·07	12	19	0	0	4
*a*Pictou	45	42	62	41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·71	−1·87	0·67	7	24	0	0	0
Port Hastings	45	39	61	22	45	...	...	...	...	51·3	+ 2·2	15	72·0	20	32·0	22	16·8	...	...	...	...	16	9	8	11	13	23	4	8	1	93	...	...	...	3·63	−0·58	1·22	6	25	0	0	5
*Whitehead	45	15	61	8	20	...	...	...	...	49·8	+ 1·3	23	60·0	11	37·0	24	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Sable Island, E. Point	43	58	59	46	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sable Island, M. Station	43	57	60	6	25	...	...	...	...	46·9	+ 0·4	10	67·0	26	26·0	12	20·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·48	0·55	1·10	6	25	0	0	0
Parrsboro'	45	23	64	19	40	...	...	...	...	50·2	—	9	74·0	21	25·0	14	24·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·41	—	1·50	5	26	0	0	0
Wolfville	45	7	64	20	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bridgetown	44	49	65	16	30	...	...	...	...	48·5	—	4	71·5	6	25·0	11	22·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·98	—	0·56	9	22	0	0	0
Windsor	44	59	64	6	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
P. E. ISLAND—																																									
Charlottetown	46	14	63	10	38	30·13	30·59	28·96	1·63	49·0	+ 2·2	31	68·3	5	33·0	17	16·1	...	...	5	6	11	90	4	129	33	277	23	94	80	744	8·2	25·0	10 SE	4·41	−0·22	1·73	7	23	0	0	0
Hamilton	46	25	63	48	...	...	...	...	...	18·8	—	9	71·0	7	27·0	23	16·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·63	—	0·53	10	21	0	0	1
Summerside	46	18	63	51	...	...	...	...	...	48·8	—	8	69·0	6	31·0	16	15·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·47	—	0·75	9	22	0	0	0
NEWFOUNDLAND—																																									
St. John's	47	34	52	42	125	30·14	30·59	29·50	1·09	47·1	+ 1·8	34	72·0	20	28·0	25	13·7	...	...	6	10	15	5	2	9	10	13	2	6	0	62	...	11·0	6 S	5·37	+0·05	1·20	12	19	0	0	4
Channell	47	37	59	9	50	...	...	...	...	44·1	0·0	22	58·0	20	29·0	4	—	...	...	6	4	0	0	9	25	5	9	36	3	6	93	II	IV	30 W	5·75	+0·42	2·80	6	25	0	0	6
*Cape Norman	51	38	55	52	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Amour Point	51	28	56	51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Point Rich	50	42	57	25	...	...	...	...	...	43·1	+ 1·5	22	65·0	11	33·0	22	—	...	...	...	...	6	3	5	3	4	9	51	9	0	93	...	...	...	1·75	−1·76	1·10	3	28	0	0	0
BERMUDA—																																									
Prospect	32	17	64	30	151	30·02	30·28	29·75	0·53	75·5	+ 2·3	15	83·0	3	68·4	12	9·0	...	...	6	2	1	2	23	12	4	7	2	5	6	62	...	21·0	2 SE	11·84	+4·24	3·16	20	11	0	3	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING OCTOBER, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Coquitlam	9·66	13	18	2·15	24					
Denman Island	8·60	11	20	1·60	16					
Goldstream Lake	12·17	19	12	3·61	25					
Nanaimo (2)	5·05	11	20	1·57	15-16					
Royal Oak	5·34	12	19	1·80	24					
Somas River	11·63	16	15	1·91	2					
Hartly Bay	23·75	24	6	5·00	4	0·4	1	0·4	31	
Naas Harbour	8·35	15	16	1·43	5					
ALBERTA—										
Bardo	1·18	3	28	1·06	18					
Beaver Hills, W	0·65	5	26	0·45	12	"	1	"	19	
Bruederheim	0·51	5	26	0·86	1	"	1	"	19	
Conjuring Creek	0·46	5	26	0·39	12					
Clover Bar	0·41	3	28	0·25	12					
Grassy Lake	0·67	5	26	0·30	24					
Heather Brae	0·13	2	26	0·09	19					
Island Lake	0·20	2	27	0·12	2	1·3	2	1·3	31	
Innisfail	0·78	4	26	0·30	7	"	2	"	18	
Jumping Pond	1·13	7	24	0·47	25	"	3	"	4	Thunder 28th.
Josephburg	0·60	6	25	0·20	14	"	1	"	24	
Lacombe	0·20	1	28	0·20	20					
Magrath	0·57	3	26	0·20	21	9·0	2	5·0	18	
Macleod (2)	0·51	4	24	0·25	4	8·5	3	0·5	19	
Okotoks	0·23	2	27	0·16	7	2·0	2	2·0	23-24	
Rocky Coulee	0·11	3	28	0·08	19	"	1	"	19	
Saddle Lake	0·06	1	30	0·06	12					
Sion	0·19	5	25	0·30	12					
Stirling	0·53	3	27	0·34	9	1·0	1	1·0	19	
St. Paul des Metis	0·32	4	27	0·21	11					
Stavely	0·10	1	25	0·10	18	"	1	"	17	
Vermilion	0·17	1	30	0·17	18					
Wabamun	0·52	6	21	0·12	12	"	1	"	30	
SASKATCHEWAN—										
Elm How	0·05	1	29	0·05	16	"	1	"	29	
Insinger	0·07	1	28	0·07	18	5·5	2	5·0	28	
Last Mountain	0·07	2	29	0·06	29	"	1	"	29	
Regina (2)	0·72	5	22	0·55	28					
MANITOBA—										
Beaver	0·69	2	29	0·63	17					
Cartwright	0·79	1	24	0·47	17	"	2	"	28	
Gretna	0·22	1	28	0·22	19	1·0	2	1·0	9	
Norquay	0·66	3	25	0·45	18	1·0	3	1·0	30	
Rapid City	1·55	6	23	0·65	16	1·0	3	1·0	28	
ONTARIO										
Emsdale	6·54	14	17	1·87	9	"	3		28	
MacCrae	1·17	6	25	1·26	6					
Huntsville	1·62	5	23	1·25	9	1·3	3	1·5	12	
Croydon	3·80	5	25	1·20	6	0·5	2	0·5	8	
Parma	5·05	12	19	1·53	20					
Deer Park	1·00	6	24	2·39	10	1·3	2	1·3	30	
Montague	3·67	5	26	1·37	6					
Goderich	1·74	5	24	1·00	27	6·0	3	1·0	9	
Orangeville	5·69	8	20	1·54	7	9·0	3	5·6	11	
Aurora	1·17	12	16	1·92	19	7·3	1	5·3	30	
Wiarton	3·61	8	23	0·89	27	1·0	2	1·0	10	
Lansdowne	1·51	6	25	1·60	19					
Watford	6·81	8	..	1·70	27					
Arden	1·01	12	19	1·20	20		1		29	
Wooler	5·15	8	20	2·11	19	0·5	3	0·5	30	
Midland	1·51	11	15	0·80	27	"	2	"	29	
Dutton	1·98	9	20	1·75	17	3·5	3	2·0	10	
Sydenham	5·75	7	23	2·00	6	2·0	1	2·0	11	
Nasbonsing Lake	3·17	7	24	1·19	8		1	"	26	
Menard's Bridge	3·39	7	24	1·01	8					
White Fish	3·29	7	24	0·75	8					
Turtle Dam	3·25	7	24	0·79	8					
Fitzroy Harbour	3·45	7	24	1·23	19	"	1	"	30	
Britannia Bay	2·86	7	24	1·20	6					
Kishkoqui Lake	3·16	9	22	0·86	8	1·6	1	1·6	28	
Lake Talon	2·16	6	25	0·60	25					
Westport	1·79	7	24	1·23	20					
Ennismore	2·83	4	25	1·50	19	3·0	2	3·0	28	
Princeton	5·38	11	20	1·55	19	12·0	2	9·0	30	
Westminster	1·52	9	22	1·12	24	1·0	2	1·0	23	
Strathroy	6·75	12	18	1·21	6	21·0	3	13·0	10	
Georgetown	3·39	11	16	1·13	19	8·3	1	2·5	11	
Wyoming	1·05	7	22	1·30	18	5·0	2	1·0	11	
Winchester Springs	3·37	6	25	2·20	20-21					
QUEBEC—										
Bryson	3·05	9	21	0·90	6	"	1	"	29	
NEW BRUNSWICK—										
Point Escuminac	1·18	7	24	0·36	26					

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF OCTOBER, 1906.

	Hours Ending														
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	0·00	0·00	0·01	0·17	0·35	0·42	0·47	0·50	0·48	0·50	0·41	0·39	0·16	0·00	0·00	0·00
Nanaimo	0·00	0·00	0·00	0·20	0·37	0·41	0·46	0·41	0·40	0·47	0·40	0·38	0·19	S	0·00	0·00
Agassiz	0·00	0·00	0·06	0·20	0·43	0·38	0·59	0·35	0·32	0·26	0·17	0·11	0·06	0·00	0·00	0·00
Kamloops	0·00	0·00	0·03	0·22	0·28	0·31	0·38	0·41	0·41	0·31	0·36	0·17	0·00	0·00	0·00	0·00
Battleford	0·00	0·00	0·16	0·41	0·54	0·55	0·52	0·59	0·52	0·45	0·43	0·32	0·24	0·03	0·00	0·00
Calgary																
Medicine Hat	0·00	0·00	0·09	0·41	0·58	0·64	0·61	0·72	0·59	0·48	0·39	0·34	0·13	0·00	0·00	0·00
Edmonton	0·00	0·00	0·03	0·36	0·47	0·50	0·56	0·60	0·65	0·62	0·65	0·47	0·14	0·00	0·00	0·00
Indian Head	0·00	0·00	0·00	0·00	0·03	0·31	0·51	0·56	0·57	0·58	0·54	0·55	0·28	0·05	0·00	0·00
Brandon	0·00	0·00	0·00	0·12	0·39	0·56	0·64	0·66	0·68	0·66	0·68	0·62	0·29	0·00	0·00	0·00
Winnipeg	0·00	0·00	S	0·13	0·35	0·39	0·41	0·45	0·48	0·55	0·50	0·42	0·13	0·00	0·00	0·00
Woodstock	0·00	0·00	0·00	0·07	0·34	0·41	0·52	0·49	0·46	0·53	0·44	0·36	0·11	0·00	0·00	0·00
Toronto	0·00	0·00	0·00	0·15	0·47	0·46	0·45	0·44	0·51	0·51	0·41	0·42	0·28	0·00	0·00	0·00
Lindsay	0·00	0·00	0·05	0·25	0·34	0·43	0·41	0·43	0·42	0·47	0·48	0·43	0·40	0·09	0·00	0·00
Barrie	0·00	0·00	0·00	0·23	0·42	0·40	0·39	0·42	0·45	0·41	0·45	0·45	0·36	0·00	0·00	0·00
Gravenhurst	0·00	0·00	0·05	0·43	0·48	0·50	0·49	0·54	0·63	0·61	0·61	0·55	0·49	0·18	0·00	0·00
Haileybury	0·00	0·00	S	0·16	0·35	0·44	0·41	0·37	0·42	0·42	0·37	0·40	0·15	0·00	0·00	0·00
Kingston	0·00	0·00	0·00	0·12	0·28	0·44	0·50	0·51	0·50	0·51	0·43	0·29	0·06	0·00	0·00	0·00
Ottawa	0·00	0·00	S	0·19	0·45	0·50	0·60	0·51	0·45	0·46	0·49	0·50	0·29	0·01	0·00	0·00
Montreal	0·00	0·00	0·01	0·19	0·41	0·53	0·54	0·54	0·59	0·55	0·52	0·37	0·05	0·00	0·00	0·00
Sherbrooke	0·00	0·00	0·02	0·28	0·45	0·52	0·56	0·55	0·59	0·67	0·63	0·48	0·37	·02	0·00	0·00
Quebec	0·00	0·00	0·01	0·18	0·35	0·40	0·58	0·56	0·59	0·58	0·57	0·53	0·33	0·01	0·00	0·00
Charlottetown	0·00	0·00	0·00	0·31	0·53	0·58	0·65	0·66	0·73	0·70	0·65	0·57	0·37	0·13	0·00	0·00

	Victoria.	Nanaimo.	Agassiz.	Kamloops.	Battleford.	Calgary.	Medicine Hat.	Edmonton.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Gravenhurst.	Haileybury.	Kingston.	Ottawa.	Montreal.	Sherbrooke.	Quebec.	Charlottetwn
Mean proportion for month (*Constant sunshine being 1*)	0·35	0·35	0·23	0·27	0·45		0·47	0·48	0·37	0·48	0·36	0·31	0·38	0·38	0·35	0·51	0·32	0·33	0·41	0·43	0·41	0·42	0·53
Difference from average	00	—	— ·12	—	— ·03		—	—	— ·01	+ ·09	·04	·05	·05	— ·02	+ ·01	—	—	— ·07	+ ·06	+ ·02	—		—
Maximum daily amount	0·85	0·89	0·76	0·80	0·98		0·90	0·91	0·80	0·80	0·94	0·81	0·87	0·97	0·87	0·96	0·86	0·80	0·90	0·95	0·91	0·90	0·98
Date	9	20	8	20	10		22	20	10	2	29	21	21	1	24	1	12	2	2	15	1	21	13
No. of days completely clouded	6	8	12	5	5		3	1	5	2	5	10	5	8	8	2	6	8	6	5	3	0	4

Aurora recorded :

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

5. Insinger, III.

7. Madoc, III.

10. Aweme, IV ; Waitefield, IV ; Foxleigh.

11. Haileybury, III ; Madoc, IV ; Insinger, IV ; Foxleigh.

12. Waitefield, II.

13. Haileybury, IV ; Chaplin, IV ; Aweme, III ; Insinger, IV.

14. Waitefield, III ; Threehills Creek, III ; Hillsdown, IV.

15. Threehills Creek, IV.

16. Hillsdown, IV.

17. Insinger, III. .

18. Cape Chatte, II ; Chicoutimi.

19. Aweme, IV ; Waitefield, IV.

20. Clinton, Aweme, III ; Gray Hill, III ; Waitefield, III ; Threehills Creek, IV ; Hillsdown, IV ; Cape Chatte, IV ; Georgetown, IV.

21. Gravenhurst, IV ; Clinton, Brandon, Hillview, II ; Aweme, III ; Gray Hill, IV ; Threehills Creek, II ; Hillsdown, IV ; Bruederheim, Grand Manan, III.

22. Haliburton, Rutherglen, Aweme, III ; Gray Hills, IV ; Waitefield, III ; Threehills Creek, IV ; Cape Chatte, IV ; Swift Current, IV.

23. Insinger, III ; Swift Current, IV.

25. Insinger, IV.

Thunder recorded on :—

5. Renfrew, Gravenhurst, Ursa, Madoc, Lakefield, Lansdowne, Port Stanley, Alameda, Ennismore, Father Point.

7. Scarboro, Cape Chatte, Port Stanley.

8. Gravenhurst, Clinton, N. Gower, Ursa, Madoc, N. Bruce, Clontarf, Lakefield, Cockburn Island, Meaford, Agincourt, Birnam, Owen Sound, Point Clark, Beatrice, Rutherglen, Emsdale, Lansdowne, Parry Sound, Alton, Toronto, Lindsay, Uplands.

9. N. Bruce, Orillia, Brome, Arden, Saugeen, Parry Sound, Montreal, Uplands.

10. Salmon Arm, St. Stephen.

12. Nanton.

13. Port Simpson.

14. Bermuda.

15. Chilliwack, Bamfield, N. Nicomen.

17. Alameda, Bermuda.

18. Bermuda, Qu'Appelle.

24. London, Hartley Bay, Ursa, Lucknow, Paris, Meaford, Birnam, Owen Sound, Beatrice, Cottam, Rutherglen, Ennismore, Strathroy, Copper Cliff, Barkerville, Parry Sound, Port Stanley, Lindsay, Uplands.

25. Gravenhurst, Sutton, Lakefield, Princeton.

27. N. Bruce, Wyoming.

28. Truro, Jumping Pond, Barkerville, Halifax, Calgary.

29. Alberni.

30. Bamfield, Hartley Bay.

FORECASTS FOR OCTOBER, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1385. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	81	62	15	4	85·8
Saskatchewan	84	65	18	1	88·1
Manitoba	86	73	9	4	91·1
Lake Superior	131	97	25	9	83·6
Lower Lake Region	136	103	29	4	86·4
Georgian Bay	135	100	30	5	85·2
Ottawa Valley	116	90	17	9	84·9
Upper St. Lawrence	115	89	19	7	85·6
Lower St. Lawrence	123	88	18	17	78·9
Gulf	122	90	22	10	82·8
Maritime Provinces, West	128	83	27	18	75·4
Maritime Provinces, East	128	82	24	22	73·4
Total	1385	1022	253	110	82·9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
27th November, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

LIBRARY UNIVERSITY OF TORONTO

Monthly Weather Review.

VOL. XXX. NOVEMBER, 1906. No. 11.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

The weather in British Columbia was somewhat dull and wet over the upper mainland, rain or snow occurring frequently from the 4th to 15th and 19th to 24th. On the lower mainland the proportion of bright sunshine was somewhat greater, whilst on Vancouver Island it was excessive. The precipitation over the latter portion of the province occurred chiefly between the 1st and 22nd. Up to the 15th comparatively high temperatures prevailed, but after this date frosts were recorded almost daily over the upper mainland, and the falls of snow were sufficient for good sleighing in most localities.

In the Western Provinces the weather was mostly fair up to the 14th, though light local falls of snow occurred occasionally and sleet and rain with high winds were reported in southern districts on the 13th. On the 15th, a severe storm with heavy snow and much colder weather set in over Alberta. These conditions prevailed for several days, temperatures below zero being recorded in Alberta on the 16th. From the 23rd to 29th, it was comparatively mild, but on the 30th it again turned much colder. The proportion of bright sunshine was below the average.

The weather in Manitoba was exceedingly mild during the first half of the month, much colder weather setting in on or about the 15th, and temperatures well below zero being recorded a few days later. From the 1st to 13th, the weather was fair in most districts, but light local falls of rain were recorded occasionally during the first seven days. On the 13th, and from that date to the 22nd, local falls of rain or snow were somewhat frequent, but from the 19th to the 30th, the weather was mostly fair. The proportion of bright sunshine was below the average.

In Ontario the weather was mostly fair and mild with light frosts at night during the first ten days, after which colder weather prevailed up to the 17th. On the 18th and 19th, between 50° and 60° was recorded at many places, and it was comparatively mild from the 25th to 27th. The precipitation, which was mostly rain, occurred chiefly between the 9th and 13th, 18th and 21st, and 26th to 28th. A fall of snow accompanied by high winds was reported from most districts on the 12th. Heavy gales were general on Lake Superior on the 16th and 17th, and on Lake Huron on the latter date. Heavy gales also occurred on the Great Lakes on the 21st and 22nd, and more moderate gales on the 26th. The proportion of bright sunshine slightly exceeded the average.

The weather in the Province of Quebec was exceedingly fine and comparatively mild during the first week, after which light precipitation, which was chiefly snow, was of frequent occurrence; and although there was some bright weather between the 19th and 24th, dull weather was the rule after the first week. Gales were general in the eastern portion of the province from the 3rd to 8th, also on the 12th and 16th, these last two storms being quite severe.

The weather in New Brunswick was exceedingly stormy, dull and unsettled and somewhat colder than usual. On the 2nd and 3rd, rain was general, and from the 9th to 13th 16th, 22nd and 27th, rain or snow was also recorded, the total precipitation exceeding the average at most places. Gales were general from the 1st to 7th, 12th, 13th, 15th, 16th, and 21st to 23rd, a velocity of 72 miles per hour being reported from Point Lepreaux on the 16th. Frosts occurred almost daily, and after the 23rd, quite low temperatures were recorded at night. On or about the 19th and 20th, between 50° and 60° was reported from many places, fine weather occurring at this time.

In Nova Scotia the weather conditions were somewhat similar to conditions in New Brunswick, it being mostly dull, stormy and wet, but the mean temperature slightly exceeded the average. During the first ten days rain occurred almost daily, and in some districts this wet period extended to the 19th. From the 20th to 30th, the weather was somewhat better, but rain or snow was recorded at most places on or about the 24th and 27th. From the 16th to 21st, quite mild weather prevailed, between 50° and 60° being recorded on the 20th. Light frosts at night were frequent, and after the 23rd, temperatures well below 32° were noted.

In Prince Edward Island the weather was unusually dull and wet and somewhat mild. Rain occurred almost daily up to the 19th, and on or about the 22nd, 23rd and 24th, rain or snow was recorded at many places. Light frosts were noted occasionally and after the 23rd, the weather was quite cold. Strong winds were frequent and there were several heavy gales.

F. F. Payne.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for November was supernormal over Canada except in the Maritime Provinces, where it was subnormal, and locally in Quebec, Saskatchewan and Northern Manitoba where the normal value was reached.

Extremes of departure from average were +0.17 of an inch at White River, Ont., and —0.17 of an inch at Halifax, N.S.

HIGH AREAS.

Seven areas of high pressure were charted during the month, three were first shown in the Yukon Territory, one moved into British Columbia from the Pacific Ocean and three into the continent from the United States Pacific Coasts. The three areas from the far north were all of considerable intensity attended generally by low temperatures. The first of the series was the most pronounced. It was likewise of long duration and the manner in which its centre hovered in the northern Ottawa Valley from the 4th to the 8th inclusive, oscillating a little farther to the eastward on some occasions and on others more to the westward was remarkable.

LOW AREAS.

Eleven areas of low pressure were charted during the month the larger number drifting into the continent from the Pacific Ocean, either well to the northward in British Columbia, or else over Alaska. The disturbances which apparently developed to the southward of Nova Scotia between the 2nd and 4th and also between the 28th and 29th caused the two great gales of the month in the Maritime Provinces and the disturbance which hung over Texas from the 18th to the 20th with seemingly diminishing energy and then quickly travelled up the Mississippi Valley with rapidly increasing intensity was responsible for the most severe gale of the month over Lake Huron, the Georgian Bay and Lakes Erie and Ontario. On Lake Superior the heaviest gale was attributable to a disturbance which moved into British Columbia from the Pacific Ocean between the 13th and 14th and passed eastward to Minnesota whence it recurved to the northward.

WINDS.

In British Columbia on Vancouver Island and over the Mainland the easterly direction was most in evidence with six days with strong and fourteen with fresh breezes and two gales.

In Alberta and Saskatchewan the direction was largely variable with fourteen days with strong and nine with fresh breezes and four gales.

In Manitoba the direction was variable with eleven days with strong and eight with fresh breezes and five gales.

In the Lake Region the direction was variable with six days with strong and six with fresh breezes and five gales.

In the Ottawa and Upper St. Lawrence Valleys the north and west directions predominated with seven days with strong and fourteen with fresh breezes and three gales.

In the Lower St. Lawrence Valley and the Gulf the direction was mainly nortwesterly to northeasterly with nine days with strong and six with fresh breezes and six gales.

In the Maritime Provinces the direction was also chiefly northwesterly to northeasterly with five days with strong and nine with fresh breezes and six gales.

The gales occurring from the Lake Region to the Maritime Provinces although fairly numerous were not unusually so for the season of the year, but in the Gulf of St. Lawrence and in the Maritime Provinces more than one was remarkable for its long duration. This was especially the case in regard to the heavy gale which set in on the 3rd from the northward and which immediately succeeded a gale which had blown on the 1st and a portion of the 2nd. It lasted until the 7th without intermission causing immense destruction of life and property along our Atlantic and Gulf of St. Lawrence coasts. No warnings were issued for this gale and warnings issued to River Bay stations on the 18th and to Lawrence Ocean Stations on the 22nd were not subsequently justified by dangerous winds, otherwise the storms of the month were generally successfully warned.

BRIGHT SUNSHINE.

The amount of bright sunshine recorded during November was from average to 8% above over British Columbia, and from average to 4% above over Ontario; elsewhere in Canada a deficiency occurred. Extremes of departure from normal were 8% above at Victoria, B.C., and 13% below at Fredericton, N.B. At Gravenhurst, Ont., on the 6th the possible amount of sunshine was registered.

TEMPERATURE.

The mean temperature of November was higher than the average from Saskatchewan to Lake Huron, and either average or about 1° above or below in other portions of the Dominion. The largest positive departure, amounting to 7°, occurred in Manitoba and to the northward of Lake Superior.

The Highest and Lowest temperatures in each Province during November, 1906, were:

British Columbia,	72° ·0 on 5th at Hedley,	— 5° ·0 on 28th at Big Creek.
Alberta,	62° ·0 on 12th at various stations	—26° ·3 on 18th at Blackfalds.
Saskatchewan	58° ·0 on 7th at Chaplin,	—16° ·0 on 18th at Chaplin, and on 29th at Onion Lake.
Manitoba,	59° ·0 on 4th at Carberry,	—25° ·0 on 4th at Carberry.
Ontario,	64° ·0 on 5th at Point Clark,	— 2° ·5 on 29th at Haileybury.
Quebec,	50° ·8 on 3rd at Montreal,	— 1° ·3 on 27th at Chicoutimi.
New Brunswick,	63° ·0 on 7th at Dalhousie,	5° ·0 on 28th at St. Stephen.
Nova Scotia,	61° ·8 on 19th at Halifax,	10° ·8 on 30th at Truro.
Prince Edward Island,	56° ·0 on 16th at Summerside,	19° ·0 on 30th at Summerside.

PRECIPITATION.

The precipitation was very generally in excess of the average from the Interior of British Columbia to the Georgian Bay District of Ontario, and also in the Maritime Provinces; elsewhere in Canada it was deficient.

Near the coast in British Columbia it was almost wholly rain and in the Upper Mainland it was part rain and part snow. In the Western Provinces it was almost wholly snow. In Ontario, Quebec, and the Maritime Provinces it was part rain and part snow, the former preponderating.

DEPTH OF SNOW ON THE GROUND.

At the close of the month all the higher lands of British Columbia and the whole of the Western Provinces, exclusive of Southern Alberta, were snow covered, with fair sleighing in many districts. In Ontario the ground was mostly bare, except in Algoma and Nipissing, and in some localities near the Ottawa river. In Quebec there was but a thin covering except in the Gaspé Peninsula. The larger part of New Brunswick had a thin covering; as had also some portions of Nova Scotia and Prince Edward Island.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observ'd.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms.	No. of logs.
BRITISH COLUMBIA				in.	in.	in.	in.																																
Victoria	48	24	123	19	85	30·01	30·65	29·19	1·46	44·2	0·0	15	56	1	9	30	1	29	8·6			7	10	274	121	81	74	23	68	49	22	2	720	8·5	25·3	3 8	6·13	0·17	1·10	16	11	0	0	2
Barkerville	53	2	121	35	4180	29·95	30·53	29·20	1·33	26·1	+ 0·7	18	40	0	12	7·0		17	11·2			7	11	0	0	0	0	2	3	0	0	55	60		10·0	12 8	3·46	+0·38	0·80	16	13	0	0	0
Agassiz	49	14	121	31	52					40·9	+ 1·0	16	53	0	9	24·0		15	15·6			3	1	30	0	0	0	18	0	42	0	0	90				12·50	+4·36	1·21	16	14	0	0	0
Port Simpson	54	34	130	26	26	29·85	30·40	29·26	1·14	41·0	+ 1·7	20	54	2	27	30·4		2	8·8			8	15	2	0	21	11	3	1	5	0	17	60		18·7	12 SE	8·18	−3·61	1·86	22	7	0	0	0
Revelstoke	51	0	118	6	1476					31·5	—	6	46	0	5	13·0		29	9·6																		4·76		1·10	15	11	0	0	0
Kamloops	50	41	120	29	1193	30·02	30·58	29	36	1	22	35·4	+ 1·0	13	57	1	12	12·3		23	10·8			7	15	0	1	8	3	2	0	0	0	46	60		20·0	9 E	2·38	+0·83	1·20	9	20	0	0	0
Princeton	49	29	120	29	1650					30·9	− 0·4	11	52	0	5	9·0		23	14·6																		3·32	− 1·31	1·44	12	18	0	0	0
Pilot Bay	49	39	116	55	2000																																					
Rivers Inlet	51	39	127	19	20	29·98	30·64	29·23	1·41	40·3	+ 0·6	13	49	6	11	30·6		23	7·2	97	8	7	0	1	15	32	3	0	1	0	38	90	1	IV	3 E	13·51	−3·02	3·03	25	5	0	0	2
Stuart's Lake	54	28	124	12	2280																																					
Coldstream	50	14	119	15	1246					33·1	+ 1·0	10	57	0	12	14·0		23	11·1																		2·61	+1·36	0·71	10	20	0	0	0
a Nanaimo	49	10	123	57		29·93	30·53	29·14	1·39	11·6		7	56	6	9	26·1		28	10·9			6	8	1	1	2	26	0	1	8	8	43	90	5·3	32·0	1 SE	8·61	—	1·28	15	14	0	0	5
Chilliwack	49	10	131	57	21	30·07	30·66	29·30	1·36	41·0	—	8	57	6	10	25·0		27	10·6			7	11	6	16	30	4	13	5	7	6	0	90				10·72	—	1·65	16	14	0	1	2
Winter Harbor	50	32	128	3						42·6	+ 1·0	11	55	0	12	32·0		22	8·5					0	0	1	9	2	4	11	3	0	30				3·88	−13·85	1·75	23	7	0	0	0
Salmon Arm	50	12	119	35	1215					35·8	—	5	52	0	12	20·0		23	9·2																		3·50	—	0·52	13	16	0	0	0
Nicola Lake	50	9	120	39	2120					32·1	+ 1·1	11	53	0	13	10·0		29	13·4																		1·51	+0·27	0·41	10	20	0	0	6
Garry Point	49	21	123	17						41·1	− 0·3	11	55	0	11	23·5		26	11·8																		5·85	+1·20	1·00	16	14	0	0	0
Tobacco Plains	49	1	115	5	2684					32·0	− 0·5	11	51	1	15	10·0		23	12·0																		3·25	+1·06	1·39	9	21	0	0	0
a Vancouver	49	17	123	5	136	30·04	30·65	29·32	1·33	40·8		2	57	3	9	25·5		24	10·7	90	6	10	1	0	21	9	2	4	4	0	19	60	3·7	20·0	05 W	8·25	—	1·37	19	9	0	0	8
New Westminster	49	13	122	54	330	30·07	30·65	29·28	1·37	40·7	− 1·3	13	55	3	10	24·1		26	10·4		6	11	2	2	25	2	4	6	1	1	17	60		14·0	15 SW	7·19	−1·19	1·14	19	11	0	0	0
Ladner	49	5	123	4						40·3	—	5	51	0	13	22·0		27	9·0																		6·79	—	1·25	11	16	0	0	0
North Nicomen	49	12	122	2	59					41·2	− 1·5	13	59	0	12	24·0		27	10·4																		9·78	−2·54	1·75	16	11	0	0	0
Quesnelle	52	59	122	30	1700					32·4	+ 3·2	12	56	0	10	9·0		22	11·8																		1·15	−0·04	0·50	4	24	0	0	0
Clayoquot	49	11	125	47	40					41·9	—	5	58	0	11	30·0		29	19·1																		13·79	—	1·61	21	9	0	0	0
Cranbrook	49	30	115	50	2000																																					
Massett	53	58	132	9	30																																					
Bullion	52	45	121	55	2275					29·7	− 0·6	10	47	0	12	9·0		18	15·7																		2·12	0·92	0·63	13	17	0	0	0
Bella Coola	52	40	126	54	150					37·8	—	7	55	0	12	28·0		18	8·5																		3·96		0·91	13	17	0	0	0
Cowichan	48	25	123	42	170																																					
Nelson	49	29	117	21	1760					34·3	—	5	52	0	5	15·0		22	11·8																		4·36		0·76	14	16	0	0	0
Okanagan Mission	49	52	119	29	1200					35·9		7	56	8	13	19·0		26	13·8																		2·62		1·02	12	14	0	0	0
Alberni	49	15	124	49	300					41·0	− 1·3	12	59	1	10	30·9		15	9·8																		10·56	−0·72	2·51	18	12	0	0	0
Cape Scott	50	48	128	27						43·8	—	9	52	9	11	33·3		2	6·8																		12·29	—	1·75	28	2	0	0	0
Glacier	51	14	117	29	4072																																			0	0	1
Golden	51	16	116	55	2550					25·5	—	5	46	0	6	— 4·0		28	13·8																							
Spence's Bridge	50	25	121	30	760					43·7	—	4	59	0	7	29·5		29	11·1			6	8	0	3	0	31	3	0	7	6	40	90				10·41	—	2·53	18	11	0	1	1
Bamfield	48	50	125	9		30·00	30·58	29·21	1·31	25·4	—	3	50	0	9	— 5·0		28	19·4																		0·60	—	0·40	4	24	0	0	0
Big Creek	51	40	123	0						27·9	—	3	44	0	23	7·0		17	21·3																		5·45	—	0·80	18	12	0	0	0
Nickel Plate	49	30	120	0	5400					30·3	—	3	58	1	9	26·8		28	11·2																		7·83		1·46	18	13	0	0	0
Thetis Island	49	0	123	40						34·6	—	3	72	0	5	15·0		22	16·7																		2·40	—	0·49	14	15	0	0	0
Hedley										38·3	—	3	49	0	4	28·0		4	9·3																		10·00	—	2·17	13	17	0	0	0
Kitamaat	53	59	128	42						29·6	—	3	46	2	12	14·5		22	8·1																		5·04	—	0·92	18	12	0	0	0
Rossland	49	5	117	48	3400																																					
*Port Essington	54	9	129	55						23·2	—	2	40	0	22	— 2·0		8	9·0			8	10	20	7	5	1	16	2	0	0	9	60		VIII	22 8	2·55	—	0·83	19	9	0	0	0
Atlin	59	35	123	35		29·86	30·14	29·38	1·06	25·6	—	1	53	0	5	— 4·0		28	16·2																		1·52	—	0·60	5	25	0	0	0
Athalmer													52	0	15																						3·58	—	0·96	9	21	0	0	0
Fairview																																									
YUKON :—																																									
a Dawson	64	4	139	20	1200	30·11	30·86	29·28	1·58	1·2	—	9	22	0	1	—41·0		30	13·3			6	3	6	2	1	6	5	5	6	16	15	60				1·55	—	0·80	8	18	1	0	0
White Horse	60	45	135	0	2075					17·1	—	2	42	0	23	—12·0		8	14·6																		1·10	—	0·60	5	25	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure.				Temperature.								Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from									Velocity of wind.			Precipitation.			Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Mean miles per hour.	Highest day's velocity.	Date and direction from.	Amount.	Difference from average.	Heaviest fall in month.				
MANITOBA—*Con.*				in.	in.	in.	in.	°	°		°		°		°																							
Oakbank	49	57	96	42	740	....	....	....	....	25·1	+5·3	11	46·3	5	—14·0	20	9·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·56	+0·65	1·20	5	19	0	0	0
Oakdale Park	49	11	100	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pipestone	49	31	100	58	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Portage la Prairie	49	57	98	17	830	....	....	....	....	25·3	+2·4	17	51·0	8	— 9·0	20	13·8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·80	+1.22	0.80	9	21	0	0	0
Pierson	49	11	101	15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*a*St. Albans (Aweme)	49	42	99	33	1180	28·67	29·22	28·05	1·17	24·4	+ 2·2	22	52·0	7	—15·0	20	13·8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·62	+0·78	0·40	10	20	0	0	0
Stony Mountain	50	4	97	14	803	....	....	....	....	24·6	+ 3·9	25	48·0	8	— 9.0	20	15·6	....	....	8	17	4	7	5	6	13	5	9	5	0	51	11	IV	29s	1·74	—1·86	0.80	10	16	0	0	2
Treherne	49	36	98	40	1212	....	....	....	....	21·4	— 0·2	11	54·0	4	—13·0	20	13·4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Virden	49	51	100	55	1144	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Winnipeg	49	53	97	7	760	30·05	30·61	29·22	1·38	26·0	+ 6·6	32	47·3	7	—10·0	20	14·2	....	....	7	14	4	9	4	7	13	8	6	9	0	60	.....	34·0	30NW	1·87	+0·82	0·54	12	14	0	0	0
ONTARIO—																																									
Haileybury	47	29	79	39	687	30·14	30·71	29·41	1·31	27·7	+ 0.4	13	48·8	2	—2·5	29	14·6	....	....	....	....	9	5	0	1	8	10	4	12	11	90	11	IV	13NW	2·13	—0·17	0·65	8	21	1	0	3
Savanne	48	55	90	18	1506	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cottam	42	7	82	45	606	....	....	....	....	37·5	— 0·9	19	60·0	21	18·0	13	18·8	....	....	....	....	33	1	9	6	4	1	4	2	0	60	....	....	....	3·31	—0·15	1·80	8	22	0	0	0
Brantford	43	10	80	21	750	....	....	....	....	36·3	+ 0·2	21	64·0	18	22·0	2	14·6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·37	—0·31	1·55	2	26	0	0	0
Parry Sound	45	19	80	0	635	30·12	30·66	29·54	1·12	33·3	+ 0·3	30	55·0	2	5·0	29	15·2	....	....	....	....	156	94	40	69	11	152	59	131	11	720	9·0	24·7	22W	1·22	+0·11	1·57	11	16	0	0	0
Owen Sound	44	34	80	55	597	....	....	....	....	34·9	+ 0·3	27	55·0	18	12·0	14	14·0	....	....	....	....	13	5	11	5	20	12	7	14	3	90	....	....	....	3·70	+0·15	0·80	8	22	0	0	0
Beatrice	45	8	79	20	800	....	....	....	....	30·7	— 0·2	31	52·0	18	7.0	29	15·1	....	....	7	16	8	0	0	10	2	5	1	18	46	90	1	IV	22W	3·64	+0·01	0·90	10	20	0	0	0
Coldwater	44	38	79	40	690	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gravenhurst	44	54	79	20	770	....	....	....	....	33·0	+ 1·7	36	51·0	18	11·0	29	14·3	....	....	7	5	16	4	9	10	7	5	21	3	15	99	11	V	22W	2·86	—0·50	1·43	8	18	1	1	1
Haliburton	45	1	78	28	1050	....	....	....	....	30·3	— 1·2	19	53·0	19	4·0	29	17·6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·47	....	0·52	5	22	0	0	0
*Point Clark	44	5	81	44	595	....	....	....	....	38·1	— 0·7	36	61·0	5	24·0	15	—	....	....	5	0	15	12	17	14	10	6	12	4	0	90	IV	IX	20 E	1·30	—1·63	0·83	2	28	0	0	0
Birnam	43	2	81	55	600	....	....	....	....	36·9	0·0	23	56·1	18	15·0	14	12·6	....	....	6	10	10	3	7	1	16	6	9	4	1	64	....	26·0	22 W	2·64	—1·11	0·76	11	19	0	0	1
London	42	59	81	13	808	30·11	30·66	29·50	1·16	37·3	+ 0·4	22	59·0	18	21·0	29	15·6	....	81	7	11	0	17	9	8	0	6	26	21	0	90	11	VI	22 W	2·83	—1·36	0·55	10	15	0	0	2
Port Stanley	42	40	81	13	592	30·16	30·69	29·58	1·11	37·8	+ 0·2	32	57·0	6	21·0	6	14·9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·32	—0·83	0·52	12	15	0	0	4
Woodstock	43	8	80	47	980	30·15	30·73	29·53	1·20	35·5	+ 0·1	31	56·0	18	19·0	13	13·1	....	....	7	11	....	....	....	....	....	....	....	....	....	....	11·3	29·5	22 W	2·59	—0·61	0·48	12	18	0	0	0
Port Dover	42	47	80	13	635	....	....	....	....	37·6	+ 0·0	31	51·2	7	20·1	1	12·9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·89	+0·12	0·41	14	16	0	0	0
Pelee Island	41	50	82	38	585	....	....	....	....	39·5	—	28	53·5	26	20·0	19	8·7	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0·61	....	0·33	2	28	0	0	6
Paris	43	12	80	25	840	....	....	....	....	38·0	+ 1·6	17	62·0	3	18·0	1	17·0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·27	—1·06	0·77	8	22	0	0	0
Bancroft	45	1	77	50	....	....	....	....	....	30·1	— 0·7	17	54·0	18	5·0	14	16·3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rutherglen	46	15	78	48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Agincourt	43	47	79	16	590	....	....	....	....	34·8	— 0·4	10	59·0	19	18·0	14	13·9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·49	—1·36	0·65	4	26	0	0	0
Hamilton	43	16	79	54	303	....	....	....	....	38·8	+ 1·3	3	60·8	19	25·5	29	11·0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·90	—1·19	0·73	11	17	0	0	4
Port Hope	43	56	78	20	....	....	....	....	....	35·8	+ 0·5	10	56·0	11	18·0	13	15·5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·48	—0·51	0·71	6	23	0	0	0
Kinmount	44	45	78	38	920	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cockburn Island	45	57	83	18	610	....	....	....	....	33·8	—	9	50·0	3	15·0	14	11·9	....	....	....	....	6	7	7	10	7	8	8	5	2	60	....	....	....	4·14	—	1·46	8	22	0	0	2
Chatham	42	23	82	12	595	....	....	....	....	41·2	+ 2·7	20	63·0	2	17·0	2	20·1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·16	0·72	·93	3	21	0	0	0
Meaford	44	37	80	37	600	....	....	....	....	34·2	—	8	51·0	19	16·0	14	11·7	....	....	....	....	8	2	4	10	3	16	12	4	1	60	....	....	....	3·22	—	0·97	12	18	0	0	0
Listowel	43	44	80	58	1262	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bruce Mines	46	18	83	55	595	....	....	....	....	34·3	—	8	52·0	1	12·0	29	12·0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4·73	—	1·54	10	20	0	0	0
Kenora	49	48	94	32	1102	....	....	....	....	27·1	—	8	45·6	8	12·0	22	5·8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·60	—	0·90	6	24	0	0	0
Copper Cliff	46	16	79	54	....	....	....	....	....	29·2	—	1	48·0	2	0·0	29	13·6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·81	....	0·85	7	23	0	0	0
Uplands	45	48	79	25	....	....	....	....	....	28·9	— 0·3	21	50·5	19	7·5	15	17·5	....	....	....	....	11	0	5	0	11	0	22	0	11	60	....	....	....	1·91	+1·65	0·80	7	23	0	0	0
Toronto	43	40	79	24	350	30·13	30·66	29·57	1·09	37·1	+ 0·8	66	58·6	18	21·6	14	12·4	31·4	79	7	8	156	98	113	30	1	28	188	95	11	720	13·6	27·4	24 W	1·68	—1·29	0·41	13	15	0	0	0
Welland	42	59	79	17	577	....	....	....	....	37·4	— 0·1	20	62·0	18	18·0	29	14·4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·69	—1·31	0·53	9	20	0	0	0
Peterborough	44	17	78	19	722	....	....	....	....	33·7	0·0	34	59·0	18	12·0	15	17·6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·60	+0·02	0·95	7	22	0	0	0
Lindsay	44	20	78	45	872	30·09	30·6	29·57	1·09	33·2	+ 0·7	27	55·9	18	11·1	15	14·2	....	....	7	13	10	6	5	6	4	8	5	19	27	90	1	V	22NW	2·71	—0·50	0·73	14	15	0	0	0
Lakefield	44	25	78	15	....	....	....	....	....	34·0	+ 1·0	23	55·0	19	14·0	28	12·9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2·66	—0·18	0·64	9	20	0	0	0
Kingston	44	13	76	29	285	30·11	30·62	29·76	0·86	35·7	— 0·4	32	54·6	18	15·8	14	13·6	....	....	7	13	9	17	1	4	0	3	12	13	1	60	....	26·7	22 W	2·39	—0·62	0·66	13	14	1	0	0
Clontarf	45	23	77	8	....	....	....	....	....	—	—	—	—52·0	19	—	—	—	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1·38	—1·20	0·40	7	23	0	0	0
Ottawa	45	26	75	42	294	30·07	30·57	29·60	0·97	32·3	+ 0·5	22	49·0	5	13·0	15	11·0	....	....	6	11	4	4	7	1	3	7	20	13	1	60	.....	VII	11W	1·48	—0·89	0·59	10	16	0	0	1
Rockliffe	46	9	78	6	557	30·12	30·67	29·19	1·18	29·6	+ 0·4	29	48·0	6	2·0	29	14·6	....	....	7	13	1	0	3	0	1	0	3	1	51	60	.....	III	18 W	1·55	—0·98	0·50	9	21	0	0	4
*Sarnia	42	59	82	24	586	....	....	....	....	35·4	— 1·2	12	51·0	8	17·0	14	—	....	....	....	....	4	3	0	2	6	12	12	4	47	90	.....	.....	.....	1·16	—1·40	0·29	6	24	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA—																																								
Halifax	44 39	63 36	88	29·86	30·13	29·41	0·72	39·1	+ 0·3	32	61·8	19	18·3	30	9·2	...	...	8	18	282	159	56	22	68	13	58	47	15	720	12·9	34·0	4 NE	5·92	+0·31	2·53	12	15	0	0	1
Sydney	46 10	60 10	35	29·84	30·21	29·41	0·83	38·7	+ 0·7	33	56·5	16	18·0	30	10·4	...	...	9	25	117	90	61	20	5	78	37	144	138	720	4·1	25·3	4 N	7·62	+2·21	1·92	17	12	0	0	9
*a*Truro	45 22	63 18	...	29·79	30·06	29·31	0·72	37·0	+ 1·0	32	56·4	2	10·8	30	10·6	...	...	9	14	9	20	5	3	0	19	9	24	1	90	...	...	...	5·82	+1·57	1·48	32	7	1	0	1
Yarmouth	43 50	66 2	65	29·90	30·17	29·12	0·75	39·7	0·4	26	56·3	2	21·8	30	8·3	...	...	9	20	237	79	84	8	19	25	17	188	3	720	13·2	26 7	23 NW	4·45	−0·04	1·13	20	10	0	0	3
*a*Pictou	45 42	62 41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Port Hastings	45 39	61 22	45	...	...	...	...	39·2	+ 0·5	15	57·0	20	23·0	29	8·5	...	...	...	...	9	6	7	0	0	0	5	3	0	30	...	...	...	7·30	+2·96	1·41	14	16	0	0	0
*Whitehead	45 15	61 8	20	...	...	...	...	39·6	+ 0·1	23	53·0	1	21·0	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·41	+0·02	1·01	11	18	0	0	3
*Sable Island, E. Point	43 58	59 46	25	...	...	...	...	45·8	+ 1·2	24	60·0	1	28·1	30	—	...	...	...	...	30	7	40	8	6	2	6	21	0	90	...	...	...	9 19	+5·20	2 85	20	10	0	1	3
Sable Island, M. Station	43 57	60 6	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parrsboro'	45 23	64 19	10	...	...	...	...	36·4	0·0	10	58·0	19	18·0	21	9·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·06	−1·04	0·53	12	18	0	0	0
Wolfville	45 7	64 20	28	...	...	...	...	38·0	—	9	59·0	17	19·0	30	11·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·06	...	1·45	10	18	0	0	0
Bridgetown	44 49	65 16	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Windsor	44 59	64 6	30	...	...	...	...	37·3	—	4	60·0	20	18·0	30	9·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·75	—	1·67	20	10	0	0	0
P. E. ISLAND—																																								
Charlottetown	46 14	63 10	38	29·86	30·16	29·38	0·78	36·7	+ 1·0	31	55·0	16	22·0	25	6·2	...	...	9	21	19	321	9	24	11	126	13	174	23	720	11·3	31·3	4 NE	8·00	+3·90	1·17	19	11	0	0	0
Hamilton	46 25	63 18	...	...	...	...	...	36·1	—	9	55·0	17	21·0	25	7·1	...	...	...	...	3	7	3	2	0	4	8	3	0	30	...	...	...	6·37	—	1·25	21	9	0	0	0
Summerside	46 18	63 ·1	...	...	...	...	...	35·8	—	7	56·0	16	19·0	30	9·7	...	...	...	...	6	6	1	4	0	1	3	9	0	30	...	...	...	5·66	—	1·25	16	14	0	0	0
NEWFOUNDLAND—																																								
St. John's	47 34	52 42	125	29 70	30·37	29·86	0·51	40·3	+ 3·6	33	59·0	1	23·0	28	9·0	...	...	8	17	20	10	1	13	14	0	2	0	0	60	....	15·0	3 SE	12·27	+7·53	2·70	20	10	0	0	5
Channell	47 37	59 9	50	...	...	...	...	35·4	— 0·1	21	52·0	1	18·0	30	7·7	...	...	9	15	11	4	10	23	4	1	24	13	0	90	III	VIII	1 NW	7·77	+1·37	1·70	9	15	0	0	0
*Cape Norman	51 38	55 52	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Amour Point	51 28	56 51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*Point Rich	50 42	57 25	...	...	...	...	...	32·1	0·0	22	44·0	17	10·0	30	—	...	...	...	...	18	28	21	3	3	4	9	4	0	90	...	...	...	6·80	+2·29	1 26	18	12	0	0	0
BERMUDA—																																								
Prospect	32 17	64 30	151	30·09	30·12	29·80	0·62	68·8	+ 0·7	15	79·0	1	51·0	30	9·3	...	...	6	0	6	5	2	5	2	5	9	24	2	60	...	30·0	29 NW	4·96	+0·51	3 10	11	16	0	2	0

PRECIPITATION AT STATIONS REPORTING RAIN, WEATHER, SNOW, &c., DURING NOVEMBER, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Alberni	11·22	15	15	2·61	9	*	1	*	24	
Coquitlam	9·83	12	18	2·19	5·6	*	1	*	24	
Denman Island	11·57	13	17	2·20	12					
Goldstream Lake	11·04	21	9	2·26	5					
Nanaimo	8·64	15	15	2·66	9 10					
Hartly Bay	14·00	19	11	2·42	18					
Royal Oak	7·61	13	17	1·56	14					
Naas Harbour	9·05	13	16	·45	13	2 0	2	2 0	18	
ALBERTA—										
Bismark			19			32·8	8	18·7	15	
Bardo			24			16·0	5	6·0	16	
Beaver Hills, W	0·02	1	20	0·02	24	18·8	9	4 5	15	
Bruderheim			25			18·5	5	6·0	25	
Clover Bar			25			20·5	5	5·5	19	
Conjuring Creek			25			22·7	5	11·0	15	—33·5 on 18th.
Dorenlee	0·20	1	22			20·0	6	11·0	15 16	15th last geese and ducks going south.
Grassy Lake	0·50	2	25	0·40	14	3·0	3	1·0	17	
Heather Brae	0·81	1	19	0·81	24	21·0	10	10·0	11	
Innisfail			21			9·2	9	2 5	15	
Island Lake	0·05	1	24			6·0	5	3·0	26	
Josephburg	0·40	3	24			6·0	3	4·0	15	
Macleod (2)	0 61	2	25	0·61	11	6·0	3	4·0	17	
Lacombe						23·2	5	12·0	25	
Morinville						60·8	11	12·5	26	
Magrath	0·60	1	26	0·50	15	10·0	3	4·0	16	
Mayton			25			13·5	1	7·0	16	
Ponoka			24			37·0		25·5	16	
Rocky Coulee	0·50	2	26			10·2	3	10·2	16	
Saddle Lake			25			15·0	6	6·0	25	
Sion			21			20·5	10	5·0	15	
Stavely			26			6 0	5	4·0	24 25	
Stirling	0·34	1	29	0·34	15	1·0	1	1·0	30	
Vermilion			28			9 0	3	5·0	1	
Wabamun	0·07	2	20	0·05	24	17·4	9	8·9	14 15	11th first geese going south.
SASKATCHEWAN—										
Dirt Hills	0·20	2	22	0·10	5	21·0	6	20·0	15 to 18	Blizzard.
Insinger	0·15	1	22	0·15	12	18·0	8	11·6	15 to 18	Blizzard.
Last Mountain	0·22	2	25	0·20	13	*	3			
Regina (2)	0·33	1	19	0·18	12	12·7	8	10·0	15 to 18	Blizzard.
MANITOBA										
Cartwright	0·41	3	22	0·25	13	15·5	5	15·0	15 to 18	Blizzard.
Gretna	R	6	21	R	1	30·0	7	8·0	18	Blizzard.
Norquay	0·00	0	24	0·00	0	28·9	6	13·0	18	
Rapid City	0·28	2	20	0·25	13	9·2	10	6·0	15 to 17	
ONTARIO—										
Deer Park	1 41	1	21	0·54	20	0·5	2	0 5	12	
Wyoming	1·40	3	23	1·00	21	5 0	1	5·0	5	
MacCue	2·44	8	22	1·10	27	*	3			Included in rain.
Wooler	2·33	7	22	0·97	26	1·0	1	1·0	12	
Parma	2·45	10	20	0·60	12					
Georgetown	1·97	7	17	0·67	21	3·3	7	2·0	12	Fog, 9, 18, 21, 26.
Strathroy	2 37	8	21	0·67	17	2·0	1	2·0	13	
Arden	2·50	11	19	0·61	27	6·0	1	2·0	13	
Watford	1·76	5		0·68	21					
Aurora	1·86	11	18	0·73	26	3·2	2	3 2	11	
Westminster	1·20	5	21	0·46	17	*	1			
Goderich	1·09	7	22	0·40	22	1·0	1	1·0	11	
Elmsdale	3·11	10	17	1·09	27	7·5	3	3·0	26	Aurora, 7.
Lansdowne	1·51	3	26	0·97	11	3 0	3	2 0	12	
Sydenham	2·63	5	21	1·10	26	2·0	1	2·0	12	
Wiarton	3 12	8	21	0·90	26	0·8	1	0 8	8	
Dutton	2 78	11	19	0 56	18					
Emmismore	2·33	6	24	0·80	26	2 0	2	2·0	27	
Orangeville	2·22	5	22	0·73	26	3·8	6	3 1	12	
Croydon	2 65	3	25	1·20	26	2 5	3	1 5	13	
Midland	3 13	7	19	0 70	9	*	5			
Montague	1 61	4	23	0·45	11	5 0	4	3·0	12	
Princeton	2·01	7	23	·92	11					
Westport	1 97	5	23	0·92	26	3 8	3	1 5	12	
Penisi Bay	0 80	5	22	1·11	25	5 1	5	2 0	25	
Lake Talon	0·80	5	22	1 11	25	3 1	4	1 5	25	
Kiaskoque Lake	1·24	9	14	0·39	22	16 0	6	11 8	27	
Fitzroy Harbour	0·49	2		0 25	22					
Turtle Dam	2·89	6	21	1 00	22	10 8	3	9 5	26	
White Fish	2·92	6	21	1 04	22	10 8	3	9 5	26	
Menard's Brid e	2 58	6	21	0 92	25	10·0	3	9 0	26	
Nasbonsing Lake	2 53	6	21	0·93	25	10·0	3	9 0	26	
Britannia Bay	1 62	9	14	0 78	12	5 6	3	3·9	27	
Huntsville	1 12	4	23	0 50	9	5 0	3	3·0	26	
QUEBEC—										
Bryson	0 90	3	22	0 50	14	6 5	6	2 0	27	
NEW BRUNSWICK—										
Point Escuminac	1 52	10	18	0 56	1	0 5	2	0 3	9	Aurora IV. on 20.

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF NOVEMBER, 1906.

	Hours Ending														
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	0·00	0·00	0·00	0·01	0·14	0·33	0·42	0·41	0·39	0·39	0·34	0·09	0·00	0·00	0·00	0·00
Nanaimo	0.00	0·00	0·00	0·02	0·09	0·23	0·26	0·28	0·32	0·37	0·28	0·21	0·00	0·00	0·00	0·00
Agassiz	0·01	0·00	0·00	8	0·08	0·26	0·24	0·30	0·28	0·24	0·21	0·08	0·00	0·00	0·00	0·00
Kamloops	0·00	0·00	8	0·05	0·01	0·06	0·11	·14	0·16	0·14	0·17	0·01	·00	0·00	0·00	0·00
Calgary	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·00
Medicine Hat	0·00	0·00	0·08	0·19	0·31	0·34	0·50	0·58	0·62	0·55	0·43	0·07	0·00	0·00	0·00	0·00
Edmonton	0·00	0·00	0·00	0·00	0·16	0·27	0·29	0·33	0·38	0·32	0·29	0·16	0·00	0·00	0·00	0·00
Battleford	0·00	0·00	0·00	0·06	0·24	0·29	0·33	0·32	0·37	0·29	0·24	0·09	0·00	0·00	0·00	0·00
Indian Head	0·00	0·00	0·00	0·00	0·02	0·19	0·22	0·29	0·31	0·33	0·31	0·11	0·00	0·00	0·00	0·00
Brandon	0·00	0·00	0·00	0·00	0·17	0·27	0·35	0·44	0·45	0·43	0·40	0·25	0·00	0·00	0·00	0·00
Winnipeg	0·00	0·00	0·01	0·16	0·24	0·26	0·28	0·26	0·26	0·21	0·21	0·08	0·00	0·00	0·00	0·00
Woodstock	0·00	0·00	0·0	0·05	0·20	0·31	0·37	0·39	0·37	0·33	0·31	0·29	0·14	0·00	0·00	0·00
Toronto	0·00	0·00	0·00	0·06	0·21	0·30	0·37	0·39	0·32	0·32	0·36	0·31	0·09	0·00	0·00	0·00
Lindsay	0·00	0·00	0·00	0·12	0·24	0·26	0·26	0·30	0·33	0·39	0·36	0·32	0·19	0·00	0·00	0·00
Barrie	0·00	0·00	8	0·08	0·18	0·21	0·33	0·33	0·33	0·30	0·30	0·03	0·00	0·00	0·00	0·00
Haileybury	0·00	0·00	0·00	0·10	0·14	0·25	0·28	0·34	0·38	0·42	0·42	0·33	0·00	0·00	0·00	0·00
Kingston	0·00	0·00	0·00	0·06	0·27	0·30	0·35	0·37	0·37	0·37	0·30	0·19	0·05	0·00	0·00	0·00
Gravenhurst	0·00	0·00	0·00	0·16	0·24	0·23	0·29	0·39	0·44	0·46	0·47	0·42	0·35	0·00	0·00	0·00
Ottawa	0·00	0·00	0·00	0·16	0·32	0·36	0·37	0·39	0·42	0·39	0·34	0·34	0·10	0·00	0·00	0·00
Montreal	0·00	0·00	0·00	0·03	0·15	0·26	0·32	0·34	0·33	0·35	0·35	9·17	0·00	0·00	0·00	0·00
Sherbrooke	0·00	0·00	0·00	0·18	0·21	0·27	0·26	0·29	0·32	0·30	0·27	0·24	0·08	·00	0·00	0·00
Quebec	0·00	0·00	0·00	0·08	0·29	0·25	0·29	0·31	0·36	0·38	0·39	0·35	0·08	0·00	0·00	0·00
Fredericton	0·00	0·00	0·00	0·02	0·15	0·25	0·26	0·25	0·23	0·19	0·16	0·18	0·06	0·00	0·00	0·00
Charlottetown	0·00	0·00	0·00	0·02	0·09	0·17	0·18	0·18	0·17	0·18	0·16	0·12	0·01	0·00	0·00	0·00

	Victoria.	Nanaimo.	Agassiz.	Kamloops.	Medicine Hat.	Edmonton.	Battleford.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Haileybury.	Kingston.	Gravenhurst.	Ottawa.	Montreal.	Sherbrooke.	Quebec.	Fredericton	Charlottet'wn
Mean proportion for month (*Constant sunshine bring 1*)	0·27	0·23	0·19	0·30	0·40	0·28	0·26	0·20	0·30	0·22	0·28	0·28	0·29	0·25	0·28	0·27	0·36	0·34	0·23	0·24	0·29	0·19	0·14
Difference from average	+ ·08	–	·00	–	–	–	– ·05	– ·04	– ·03	– ·12	+ ·03	·00	+ ·04	+ ·05	–	·00	–	+ ·01	– ·05	–	–	– ·13	–
Maximum daily amount	0·80	0·85	0·74	0·85	0·82	0·91	0·97	0·72	0·85	0·79	0·94	0·90	0·95	0·87	0·89	0·94	1·00	0·76	0·94	0·95	0·92	0·91	0·87
Date	22	21	21	1	23	26	9	28	30	24	29	7	16	16	6	11	6	19	2	1	2	19	20
No. of days clouded	11	12	19	17	4	11	14	15	10	13	12	10	17	12	9	11	13	11	14	15	11	18	22

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

4. Quebec, IV ; Cape Chatte, IV ; Father Point, III.
5. Gray Hill, IV.
6. Insinger, IV.
7. Emsdale, III ; Gravenhurst, IV : Haileybury, III : Renfrew, IV.
8. Gray Hill, IV ; Dawson, III.
9. Grenfell, IV ; Alameda, IV ; Chaplin, IV ; Gray Hill, IV ; Foxleigh.
10. Minnedosa, IV : Qu'Appelle, IV ; Gray Hill, III.
11. Waitefield, III.
12. Waitefield, IV.
14. Fort Vermilion, II.
17. Gray Hill, IV.
18. Swift Current, IV ; Gray Hill, IV ; Waitefield, II ; Hillsdown, IV.
20. Point Escuminac, IV.
21. Gray Hill, I ; Waitefield, I ; Cape Chatte, IV ; Threehills Creek, II ; Hillsdown, III ; Virmilion, II.
22. Kingston, I.
24. Truro, IV.

Thunder recorded on :—

2. Ladner
5. Bamfield.
13. Sable Island.
15. Bermuda, Chilliwack.
20. Gravenhurst.
29. Bermuda.

FORECASTS FOR NOVEMBER, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1314. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	82	53	17	12	75 0
Saskatchewan	82	56	16	10	78 0
Manitoba	91	69	13	9	83 0
Lake Superior	120	79	26	15	76 7
Lower Lake Region	121	96	22	6	86 3
Georgian Bay	121	91	23	7	86 1
Ottawa Valley.	105	72	24	9	80 0
Upper St. Lawrence	104	74	20	9	81 7
Lower St. Lawrence	121	93	17	11	83 9
Gulf.	123	91	18	14	81 3
Maritime Provinces, West	119	90	17	12	82 8
Maritime Provinces, East.	119	81	20	18	79 0
Total.	1314	952	233	129	81 3

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
28th December, 1906.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

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Monthly Weather Review.

VOL. XXX. DECEMBER, 1906. No. 12.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the material used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

REMARKS UPON THE WEATHER.

In British Columbia the weather was colder than usual, and over the upper mainland it was exceedingly cold from the 5th to 14th when in some districts, temperatures well below zero were recorded. In most localities somewhat dull weather prevailed, but during the first and last week it was comparatively fine. From the 8th to 24th precipitation was of frequent occurrence, and in the northern portion of the province, the total fall at most places was excessive.

In the Western Provinces the weather was exceedingly cold, and although it was less cold after the 17th temperatures well below zero were very frequent throughout the month. The chief periods when snow fell were the 4th to 10th, 13th, 14th and 28th to 31st, the aggregate quantity exceeding the average. Some fine bright weather occurred during the intervening periods and in northern districts bright sunshine exceeded the average; elsewhere however, it was mostly dull. Light winds prevailed, and as the snow was not much drifted there was good sleighing.

The weather in Manitoba was unusually cold, the temperature at most places falling below zero almost every day and from —20° to —30° on or about the 7th, 9th and 17th. Much cloudiness prevailed and the falls of snow, which were recorded at most places on or about the 2nd, 7th, 9th, 12th to 14th, 25th, and 30th, were in the aggregate unusually heavy. The proportion of bright sunshine was below the average.

In Ontario the weather was abnormally cold, and temperatures below zero occurred occasionally in southern districts and quite frequently in the northern portion of the Province. The precipitation which was chiefly snow, and which fell at most places on or about the 2nd, 3rd, 6th, 8th, 10th, 15th, 23rd, 27th and 31st was light in the aggregate in northern districts and heavy elsewhere. Some fine weather occurred during the intervening periods, and in the central portion of the province bright sunshine was excessive; elsewhere, however, it was below the average. The thickness of ice on northern lakes was ten to fourteen inches on the last day of the month, and there was good sleighing throughout the greater portion of the month.

In the Province of Quebec the weather was unusually cold but mostly fine and dry. The temperature frequently dropped below zero up to the 21st when it became somewhat milder and continued so to the end of the month. Snow was recorded on or about the 2nd, 3rd, 10th, 14th, 21st, 22nd, 25th to 27th and 31st, and rain on or about the 22nd and 26th. A heavy gale occurred on the 6th when the wind at Quebec attained a velocity of 56 miles an hour. The depth of snow at Quebec on the 31st was twenty inches.

The weather in New Brunswick was exceedingly cold during the first half of the month, also from the 19th to 21st when temperatures well below zero were frequently noted. After the latter date milder weather prevailed and between 40° and 50° was recorded on or about the 21st and 25th. There was much dull weather but bright sunshine was somewhat frequent between the 1st and 19th. A heavy fall of snow occurred on the 4th and lighter falls on or about the 7th, 11th, 15th, 21st, 24th and 27th, rain also being recorded on the 21st and 24th. The most important gales of the month were reported on the 2nd, 4th and 7th.

In Nova Scotia the weather was somewhat cold and wet the mean temperature being slightly below the average and the precipitation considerably above. On or about the 7th and after the 19th much milder weather prevailed, the temperature exceeding 50° on the former date, also on or about the 22nd and 25th. At many places much dull weather occurred and precipitation, which was chiefly rain was recorded on or about the 3rd, 6th, 7th, 11th, 15th and 21st to 25th. In many districts there was sufficient snow for sleighing for some days during the earlier portion of the month, but on the 31st the ground was quite bare.

The weather in Prince Edward Island during the first three weeks was unusually cold and stormy, after which it turned much milder and continued so to the end of the month. Temperatures below zero were recorded on the 4th, 10th, 18th and 19th. In most districts the precipitation was quite excessive, snow occurring on or about the 1st, 4th, 11th, 15th and 16th and rain on the 7th, 22nd to 26th and 29th. With the exception of a few drifts the ground was bare on the 31st.—F. F. Payne.

WINDS.

In British Columbia on Vancouver Island and over the mainland the easterly direction predominated with ten days with strong and fourteen with fresh breezes and two gales.

In Alberta and Saskatchewan the direction was variable with thirteen days with strong and fourteen with fresh breezes.

In Manitoba the direction was variable with sixteen days with strong and nine with fresh breezes and one gale.

In the Lake Region the direction was more or less variable but favouring the northwest and northeast with eleven days with strong and ten with fresh breezes and four gales.

In the Ottawa and Upper St. Lawrence Valleys the direction was slightly in favour of the north and west with eight days with strong and sixteen with fresh breezes and five gales.

In the Lower St. Lawrence Valley and the Gulf the north and west directions were the most general with eleven days with strong and nine with fresh breezes and six gales.

In the Maritime Provinces the north and west directions were the most prevalent with six days with strong and nine with fresh breezes and six gales.

Navigation was generally suspended for the winter season early in the month except in those portions of the Maritime Provinces where it does not close and in the Maritime Provinces the gales were experienced between the 1st and 2nd, between the 3rd and 4th, between the 6th and 9th on the 11th and 21st and between the 24th and 25th. They were all duly warned but a warning issued on the 17th was not subsequently justified by dangerous winds.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for December was supernormal throughout Canada except from Western Alberta to the Pacific Coast where the values were subnormal.

The extremes of departure from average were —0·15 of an inch at Kamloops, B.C., and +0·18 of an inch at Port Arthur, Ont.

HIGH AREAS.

Eleven areas of high barometric pressure were charted during December, the majority of them moving from the Yukon Territory southeastward over the Lakes to the Atlantic Ocean. One area was local to the Pacific Coast Region and one developed over Ontario. As a general rule the systems were pronounced, and many were accompanied by severe cold waves which swept over the entire Dominion.

LOW AREAS.

During December the paths of thirteen cyclonic systems were charted.

A large proportion of the areas was first observed over North-West Canada, and moved east and southeast over the Lakes to the Maritime Provinces, the others impinging on the field of observation at, for the most part, widely separated localities. Two systems were of West Indian or Atlantic origin. Many of the disturbances were very pronounced and developed great rapidity of movement, being also accompanied by heavy and destructive gales in most districts.

TEMPERATURE.

The temperature exceeded the average in the extreme southwestern portion of Ontario, also very locally in British Columbia; elsewhere it was everywhere below the average and generally to a marked extent. The most noticeable negative departures were Saskatchewan and Alberta from 4 to 12 degrees: Manitoba, 3 to 6 degrees; the greater portion of Ontario, from 3 to 6 degrees, and Quebec, from 2 to 8 degrees.

The Highest and Lowest temperatures in each Province during December, 1906, were:

British Columbia,	54° ·0 on 22nd at N. Nicomen,	—40° ·0 on 31st at Stuart Lake.
Alberta,	56° ·0 on 25th at Pincher Creek,	—50° ·0 on 5th at Fort Vermilion.
Saskatchewan	40° ·0 on 18th at Swift Current,	—40° ·5 on 7th at Prince Albert.
Manitoba,	33° ·0 on 2nd at Oakdale Park,	—45° ·0 on 9th at Carberry.
Ontario,	58° ·0 on 31st at Stratford,	—36° ·0 on 8th at Rockliffe.
Quebec,	42° ·0 on 6th at Frome,	—40° ·0 on 9th at Chicoutimi.
New Brunswick,	50° ·5 on 25th at Moncton,	—28° ·0 on 9th at St. Stephen.
Nova Scotia,	54° ·5 on 7th at Sydney,	—18° ·0 on 18th at Parrsboro.
Prince Edward Island,	49° ·0 on 26th at Hamilton,	—5° ·0 on 9th at Hamilton.

PRECIPITATION.

The precipitation was above the average in Manitoba, also in nearly all portions of the Maritime Provinces, whilst in the other Provinces it was in excess of the average in some localities and deficient in others. A few of the noticeable features of its distribution were the large positive departures over Nova Scotia and Cape Breton, the excessive snowfalls in Cariboo and more locally in Northern Saskatchewan, and the marked negative departures again occurring in Ontario north and east of Lake Ontario to the boundary.

DEPTH OF SNOW ON THE GROUND.

At the close of the month snow was general over most of British Columbia, even at New Westminster five inches lay on the ground. In the Western Provinces a deep covering was the rule, Northern Alberta recording 21 inches, Saskatchewan from 12 to 36 inches, and Manitoba from 7 to 12 inches. In Ontario, owing to the mild weather prevailing during the last week of the month, very little snow was left on the ground at the close of the year except in northern localities. This was also the case in many portions of the Maritime Provinces, whilst in Quebec the depth was from 14 to 21 inches.

THICKNESS OF ICE.

Western Provinces.—Edmonton, 18 inches; Battleford, 21 inches; Medicine Hat, 20 inches; Swift Current, 29 inches; Minnedosa, 12 inches.

Ontario.—Port Arthur, 5 inches; Parry Sound, 8 inches; Kingston, 3 inches; Rockliffe, 9 inches; Ottawa, 8 inches; Bruce Mines, 13 inches; Sutton West, 12 inches; Georgetown, 10 inches; Brantford, 4 inches.

Maritime Provinces.—Charlottetown, 4 inches; Fredericton, 11 inches; Dalhousie, 8 inches; Lepreaux, 10 inches.

BRIGHT SUNSHINE.

The amount of bright sunshine recorded during December was in excess of the average locally in Saskatchewan and Ontario, but otherwise a subnormal value was registered throughout Canada. The possible daily amount of bright sunshine was recorded at Gravenhurst, Ont., on the 11th, 18th, 24th and 25th, and also at Charlottetown on the 19th.

Extremes of departure from normal were —8 at Battleford, Sask., and 9 at Brandon and Winnipeg, Man.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. DECEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms.	No. of fogs.
BRITISH COLUMBIA:—				in.	in.	in.	in.																																	
Victoria	48	21 123 19	85	29·96	30·45	29·24	1·21	41·2	− 0·5	15	52·5	22	28·3	27	7·7			8	15	317	83	99	58	24	66	56	34	7	744	7·7	18·0	7 SW	3·85	− 2·78	1·06	18	9	0	0	2
Barkerville	53	2 121 35	4180	29·90	30·40	29·39	1·10	19·0	− 2·8	18	38·0	22	− 18·0	31	13·0			7	13	0	0	0	0	9	2	0	0	51	62				5·86	+2·77	1·60	14	14	0	0	0
Agassiz	49	14 121 31	52					38·5	+ 1·5	16	51·0	4	17·0	31	13·6			5	2	24	0	3	0	12	0	51	0	3	93				6·59	2·16	0·86	19	12	0	0	0
Port Simpson	54	34 130 26	36																																					
Revelstoke	51	0 118 6	1476					26·8	—	7	42·0	11	8·0	31	7·8																		4·04		0·59	18	10	0	0	0
Kamloops	50	41 120 29	1193																																					
Princeton	49	29 120 29	1650					22·0	+ 1·8	11	39·0	5	− 5·0	27	12·9																		3·22	1·81	1·20	14	17	0	0	0
Pilot Bay	49	39 116 55	2000																																					
Rivers Inlet	51	39 127 19	20	29·91	30·31	29·20	1·14	34·2	3·5	14	16·8	4	19·1	31	6·1	33·9	96	7	17	7	20	4	29	0	4	0	0	29	93	11	IV	30 S	21·62	+5·86	3·07	25	6	0	0	0
Stuart's Lake	54	28 124 12	2280					7·9	− 9·3	13	43·0	1	− 46·0	31	21·9																		1·75	+0·19	0·23	13	18	1	0	0
Coldstream	50	14 119 15	1246					27·3	1·5	10	44·0	7	7·0	31	10·8																		1·70	+0·13	0·40	9	22	0	0	0
a Nanaimo	49	10 123 57	....	29·86	30·27	29·15	1·12	38·1	—	6	50·0	22	24·1	31	9·1	35·6	94	7	12	0	0	0	16	3	7	9	9	49	93	3·9	20·7	1 SE	5·91	—	1·19	19	12	0	0	3
Chilliwack	49	10 131 57	21	29·99	30·42	29·37	1·05	37·5	—	8	50·0	11	18·0	31	8·8	33·6	86	9	18	4	11	15	16	9	7	1	0	0	93				7·67	—	1·41	22	9	0	0	9
Winter Harbor	50	32 128 3	....					38·3	− 2·8	11	52·0	22	25·0	31	6·9					1	1	0	9	0	5	5	9	1	31				23·42	+4·16	2·75	22	9	0	0	0
Salmon Arm	50	42 119 35	1245					31·0	—	5	45·0	7	10·0	31	6·9																		2·07	—	0·33	13	17	0	0	0
Nicola Lake	50	9 120 39	2120					27·4	− 0·2	11	51·0	5	2·0	31	12·8																		2·28	+1·12	0·70	10	18	0	0	2
Garry Point	49	21 123 17	....					38·2	1·4	11	50·0	6	19·0	31	10·6																		5·72	0·02	2·04	15	15	0	0	0
Tobacco Plains	49	1 115 5	2681					28·4	− 0·1	11	47·0	13	6·0	16	12·1																		1·66	+0·63	0·65	10	21	0	0	1
a Vancouver	49	17 123 5	136	29·97	30·41	29·25	1·16	38·6	—	2	51·4	32	32·7	26	8·6	37·3	93	3	16	0	5	24	10	3	4	1	0	15	62	III	VII	9 E	7·33	—	0·97	25	6	0	0	1
New Westminster	49	13 122 54	339	30·00	30·48	29·30	1·18	38·2	− 0·3	13	51·1	32	22·0	31	7·7			8	17	1	6	27	3	5	4	1	0	15	62		9·3	11 SE	6·95	1·81	0·89	23	8	0	0	0
Ladner	49	5 123 4	....					38·0	—	5	49·0	4	21·0	26	4·6																		3·17	—	0·76	11	20	0	0	0
North Nicomen	49	12 122 2	50					38·6	+ 0·2	13	54·0	32	20·0	31	7·8																		8·74	2·41	2·04	24	7	0	0	3
Quesnelle	52	59 122 30	1700					14·2	−10·3	14	45·0	22	− 21·0	8	11·8																		2·70	+1·73	0·70	12	18	0	0	0
Clayoquot	49	11 125 47	40					41·7	—	8	52·0	14	25·5	31	9·8																		17·54	—	2·72	23	8	0	1	0
Cranbrook	49	30 115 50	2890																																					
Massett	53	58 132 9	30																																					
Bullion	52	45 121 55	2275					17·4	− 8·0	10	45·0	5	16·0	31	15·9																		3·57	+ 1·79	0·42	14	17	0	0	0
Bella Coola	52	40 126 51	150					26·1	—	8	49·0	1	8·0	31	8·1																		6·05	—		13	18	0	0	0
Cowichan	48	25 123 42	170																																					
Nelson	49	29 117 21	1760					32·4	—	5	47·0	7	13·0	27	7·8																		3·57		0·48	14	17	0	0	0
Okanagan Mission	49	52 119 29	1200					30·9	—	7	41·9	12	12·0	31	11·1																		1·51	—	0·40	10	21	0	0	0
Alberni	49	15 124 49	300					35·7	− 2·6	11	50·1	3	17·9	31	8·9																		9·01	1·20	1·26	19	12	0	0	0
Cape Scott	50	48 128 27						30·2	—	9	51·9	3	29·0	30	7·2																		19·71	—	3·15	24	7	0	0	0
Glacier	51	14 117 29	4072																																					
Golden	51	16 116 55	2550					18·3	—	5	40·0	24	−15·0	14	16·1																		2·00	—	1·20	4	27	0	0	0
Spence's Bridge	50	25 121 30	760																																					
Bamfield	48	50 125 9																																						
Big Creek	51	40 123 0	3100					10·3	—	3	47·0	4	−25·0	8	21·1																		2·50	—	0·60	7	21	0	0	0
Nickel Plate	49	30 120 0	5400					22·9	—	3	44·0	2	−10·0	30	24·2																		4·10		1·00	13	18	0	0	0
Thetis Island	49	0 123 40						39·2	—	3	52·9	22	28·0	26	10·1																		6·46	—	1·16	21	10	0	0	0
Hedley								26·4	—	3	46·0	22	− 4·0	31	15·4																		1·60		0·50	12	17	0	0	0
Kitamaat	53	59 128 42						26·2	—	4	46·0	1	0·0	31	9·0						0	0	0	3	1	0	0	2	31				9·07		2·88	19	12	0	0	0
Rossland	49	5 117 48	3100					27·1	—	3	39·0	7	13·4	27	6·3																		4·49	—	1·10	14	17	0	0	0
*Port Essington	54	9 129 55	10																																					
Atlin	59	35 133 38	....	30·11	30·80	29·51	1·29	− 0·1	—	1	38·0	26		6	12·6			7	12	19	13	7	0	5	0	0	3	15	62		VI	3 N	0·88	—	0·40	7	20	2	0	0
Athalmer																																								
Fairview											39·0	7	28·0																			2·30	—	0·90	7	24	0	0	0
YUKON:—																																							
a Dawson	64	4 139 20	1200																														0·20	—	0·10	3	28	0	0	0
White Horse	60	45 135 0	2075					−10·2	—	2	40·0	27	−55·0	5	20·3																											

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, DECEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with '01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
	° ′	° ′		in.	in.	in.	in.	°	°																															
MANITOBA—*Con.*																																							
Oakbank	49 57	96 42	740					0·4	4·3	11	21·0	24	−33·5	17	14·9																	2·20	+1·68	0·60	6	21	0	0	0
Oakdale Park	49 11	100 18						7·6	—	3	33·0	2	−26·0	17	23·8																	1·75	—	1·20	3	28	0	0	0
Pipestone	49 31	100 58																																					
Portage la Prairie	49 57	98 17	830					0·6	−5·9	17	30·0	20	−27·0	9	19·7																	1·65	+1·25	0·40	8	23	0	0	0
Pierson	49 11	101 15	1531																																				
a St. Albans (Aweme)	49 42	99 33	1180	28·87	29·28	28·30	0·98	1·3	−5·6	22	29·5	19	−29·0	10	19·6																	0·80	−0·15	0·22	13	18	5	0	0
Stony Mountain	50 4	97 14	803	30·15	30·65	29·48	1·17	−1·0	−6·0	24	25·0	20	−31·0	17	19·1			6	14	8	8	3	7	13	3	3	11	0	56	11	IV	24·8	1·20	+0·22	0·40	4	25	0	0	0
Treherne	49 36	98 40	1212					−1·3	−13·1	11	22·0	17	−34·0	8	18·2																									
Virden	49 51	100 55	1444																																				
Winnipeg	49 53	97 7	760	30·23	30·72	29·57	1·15	2·0	−2·7	33	30·8	19	−32·0	9	19·6			6	6	11	11	3	5	14	2	4	8	4	62		26·5	29 NE	1·26	−0·34	0·46	10	17	3	0	0
ONTARIO—																																							
Haileybury	47 29	79 39	687	30·21	30·80	29·58	1·22	8·3	−3·7	13	39·0	31	−31·3	8	19·5			7	15	6	3	3	0	9	4	3	21	13	62	II	IV	22 NW	1·89	−0·36	0·80	13	18	3	0	0
Savanne	48 55	90 18	1506																																				
Cottam	42 7	82 45	606					28·0	−2·0	19	52·0	5	5·0	23	13·4					30	2	1	8	4	6	9	1	1	62				3·91	+1·28	2·00	12	19	0	0	0
Brantford	43 10	80 21	750					23·8	−1·6	25	49·0	31	−6·0	3	15·0																	3·67	+1·23	2·87	5	26	0	0	1
Parry Sound	45 19	80 0	635	30·16	30·75	29·38	1·37	15·3	−5·7	30	45·0	31	−22·0	8	20·3			8	15	72	152	47	101	31	95	20	207	19	744	9·5	18·0	1 NW	3·91	−0·52	1·00	13	15	0	0	0
Owen Sound	44 34	80 55	597					21·5	−3·5	29	45·0	31	−2·0	8	11·3					14	9	10	3	27	3	11	15	1	93				2·67	−2·03	0·55	12	18	0	0	0
Beatrice	45 8	79 20	800					13·3	−5·7	31	43·0	31	−29·0	8	19·6			7	12	8	3	1	12	12	5	1	25	26	93	1	III	6 N	1·49	−2·72	0·10	11	20	0	0	0
Coldwater	44 38	79 40	600																																				
Gravenhurst	44 54	79 20	770					15·9	−5·6	36	42·0	31	−26·6	8	19·5					21	4	11	17	12	1	8	5	8	93	III	VI	1 NW	2·64	−1·30	0·73	14	15	0	0	0
Haliburton	45 1	78 28	1050					11·0	−4·5	19	41·0	31	−33·0	7	19·3																	3·20	+0·54	1·50	5	26	0	0	0
*Point Clark	44 5	81 44	595					26·1	−1·9	33	42·0	31	1·0	8				5	0	29	5	9	3	25	1	18	3	0	93	IV	X	1 W				0	0	0		0
Birnam	43 2	81 55	600					26·7	+0·5	23	48·1	31	8·0	19	10·5					12	4	8	5	5	9	7	9	3	62				1·95	+1·55	1·02	13	18	0	0	3
London	42 59	81 13	808	30·09	30·66	29·21	1·45	25·5	−1·4	22	47·0	31	2·0	4	14·1			7	18	10	7	6	11	4	15	21	19	0	93	II	V	5 SE	4·66	+1·15	1·20	14	13	0	0	0
Port Stanley	42 40	81 13	592	30·18	30·72	29·66	1·06	26·8	−1·4	31	45·2	6	2·2	25	13·6			8	13	15	2	11	2	3	2	10	11	6	62		37·3	6 W	3·64	+0·72	1·49	15	16	0	0	6
Woodstock	43 8	80 47	980	30·17	30·75	29·68	1·07	24·0	−1·8	31	47·0	31	−5·0	4	14·5		88	8	12	76	40	81	121	18	112	94	126	70	744	11·3	21·0	1 NW	2·96	−2·02	0·63	13	18	0	0	2
Port Dover	42 47	80 13	635					24·9	−2·8	31	43·1	31	1·0	25	11·1																	3·53	+0·56	1·32	16	15	0	0	0
Pelee Island	41 50	82 38	585					27·9	−2·2	26	54·0	6	10·0	21	9·2																	1·45		0·41	6	25	0	0	6
Paris	43 12	80 25	840					23·3	−4·7	17	45·5	31	−4·0	4	13·0																	3·27	+0·76	1·10	7	24	0	0	0
Bancroft	45 1	77 50						10·9	−8·1	17	40·0	31	−32·0	7	18·9																									
Rutherglen	46 15	78 48																																					
Agincourt	43 47	79 16	590					18·7	−4·4	12	40·5	1	−8·0	8	16·2																	2·00	−0·32	1·05	7	23	0	0	0
Hamilton	43 16	79 54	303								44·8	1	3·0	24																		3·03	+0·33	0·94	14	15	0	0	2
Port Hope	43 56	78 20						18·3	−5·0	10	43·0	30	−15·0	7	18·3																	3·25	+0·77	1·06	7	21	0	0	0
Kinmount	44 45	78 38	920																																				
Cockburn Island	45 57	83 18	610					19·5	—	9	40·0	1	−7·0	7	14·9					7	9	8	6	11	7	5	8	1	62				1·65	—	0·50	7	24	0	0	3
Chatham	42 23	82 12	595					29·9	+2·0	20	53·0	31	10·0	8	13·7																	2·29	+0·47	0·94	5	26	0	0	0
Meaford	44 37	80 37	600					20·6	—	7	41·0	31	−4·0	8	14·6					15	3	10	4	4	15	5	6	0	62				3·09	—	0·50	16	15	0	0	1
Listowel	43 44	80 58	1262																																				
Bruce Mines	46 18	83 55	595					15·5	—	8	39·0	31	−22·0	7	17·6																	2·41	—	0·99	7	24	2	0	0
Kenora	49 48	94 32	1102					5·7	—	8	28·0	23	−28·0	6	11·0																	1·50	—	0·70	3	28	2	0	0
Copper Cliff	46 30	83 59						10·0		1	39·0	31	−23·0	7	18·8																	2·90	—	1·05	9	21	0	0	0
Uplands	45 18	79 25						9·8	4·0	21	42·0	31	−35·4	8	21·5																	2·39	−1·33	0·40	9	22	0	0	0
Toronto	43 40	79 24	350	30·16	30·73	29·28	1·45	22·9	−3·5	65	49·0	31	−8·1	8	15·2	21·4	86	7	9	269	106	119	18	10	39	89	84	10	744	15·3	30·2	6 E	2·82	−0·04	0·99	13	11	0	0	2
Welland	42 59	79 17	577					24·7	−2·7	20	52·0	31	−9·0	4	16·2																	4·10	+0·33	1·41	13	18	0	0	0
Peterborough	44 17	78 19	722					14·1	−6·4	38	42·0	31	−24·0	8	17·4																	2·42	−0·22	0·67	10	21	0	0	0
Lindsay	44 20	78 45	872	30·13	30·68	29·38	1·30	15·5	−6·1	27	41·9	31	−18·3	8	17·5			7	12	8	6	8	5	8	9	3	28	18	93	II	VI	1 NW	4·17	−1·56	0·95	14	16	0	0	1
Lakefield	44 25	78 15						15·9	−4·4	23	44·0	1	−20·0	8	18·2																	2·85	+0·41	1·20	7	24	0	0	1
Kingston	44 13	76 29	285	30·17	30·73	29·54	1·19	18·3	−5·6	32	45·0	6	−17·0	8	16·4			8	12	4	25	0	3	2	9	5	13	1	62		23·3	6 W	2·09	−1·14	0·37	15	15	1	0	0
Clontarf	45 23	77 9									39·7	31																				1·18	−1·38	0·30	8	23	0	0	0
Ottawa	45 26	75 42	294	30·14	30·70	29·63	1·07	12·5	−4·8	24	39·0	1	−20·0	8	13·7			7	9	6	7	7	1	1	5	15	20	0	62		III	1 W	2·59	−0·34	0·52	12	16	0	0	0
Rockliffe	46 9	78 6	557	30·18	30·74	29·55	1·19	7·1	−6·9	29	37·0	31	−36·0	8	20·7			1	0	6	0	2	2	8	0	43	62				1·75	−0·67	1·10	9	22	0	0	2
*Sarnia	42 59	82 24	586					25·8	−0·3	12	44·0	31	6·0	7				9	0	7	3	6	8	4	16	40	93					1·80	−0·20	0·65	6	25	0	0	0

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PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, DECEMBER, 1906.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from average.	Years observ'tn	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
NOVA SCOTIA—																																								
Halifax	44 39	63 36	88	30·04	30·80	29·39	1·41	28·0	— 0·5	32	50·7	7	2·6	19	15·8	....	....	8	13	208	181	48	11	38	74	87	49	48	744	19·3	29·5	21 SW	9·96	+4·66	2·01	19	11	0	1	0
Sydney	46 10	60 10	35	30·01	30·68	29·09	1·59	28·7	— 0·1	33	54·5	7	0·5	13	15·4	....	....	8	17	45	50	10	58	26	150	78	159	168	744	4·6	10·0	6 SW	12·25	+7·28	2·60	16	13	0	0	2
*a*Truro	45 22	63 18	....	29·96	30·71	29·32	1·39	24·3	— 0·3	32	52·2	25	—9·0	10	18·2	....	....	8	9	8	11	3	8	7	21	5	17	13	93	....	....	....	8·97	+4·30	1·42	19	12	1	0	3
Yarmouth	43 50	66 2	65	30·01	30·80	29·21	1·59	29·2	— 1·7	26	50·0	21	5·8	8	14·8	....	....	8	13	225	72	61	35	59	68	99	121	1	744	10·6	22·0	2 NW	6·87	+1·97	1·78	20	11	0	0	4
*a*Pictou	45 42	62 41	..	....	....	....	....	....	....	..	....	..	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Port Hastings	45 39	61 22	45	....	....	....	....	28·1	— 1·1	14	54·0	7	0·0	8	10·1	....	....	....	....	6	3	11	0	0	0	11	0	0	31	....	....	....	10·82	+7·32	1·60	12	19	0	0	0
*Whitehead	45 15	61 8	20	....	....	....	....	28·6	— 1·8	23	48·0	7	4·0	9	—	....	....	....	....	20	8	5	14	8	9	14	5	0	93	....	....	....	7·47	+3·66	1·73	19	21	0	0	4
*Sable Island, E. Point	43 58	59 46	25	....	....	....	....	35·9	— 2·6	21	52·5	7	18·0	8	—	....	....	....	....	17	11	4	11	18	2	11	19	0	93	....	....	....	5·91	+2·85	1·50	11	20	0	0	3
Sable Island, M. Station	43 57	60 6	25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Parrsboro	45 23	64 19	40	....	....	....	....	21·4	— 2·5	10	47·0	24	—18·0	18	17·5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4·56	+0·74	2·30	5	26	0	0	0
Wolfville	45 7	64 20	28	....	....	....	....	25·2	—	9	51·0	22	— 7·0	19	16·5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5·75	—	1·80	10	19	0	0	0
Bridgetown	44 49	65 16	20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Windsor	44 59	64 6	90	....	....	....	....	22·5	—	4	49·0	25	— 8·0	19	18·2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7·16	—	1·40	13	18	0	0	0
P. E. ISLAND—																																								
Charlottetown	46 14	63 10	38	30·02	30·77	29·32	1·45	23·6	— 0·4	31	48·5	25	— 3·0	9	12·7	....	....	8	18	25	96	10	90	28	110	60	169	126	741	11·2	20·0	2 NW	7·25	+3·87	1·30	17	11	0	0	3
Hamilton	46 25	63 48	....	....	....	....	....	22·4	—	9	49·0	26	— 5·0	9	12·9	....	....	....	....	1	2	0	2	4	3	9	6	1	31	....	....	....	4·68	—	0·80	11	20	0	0	0
Summerside	46 18	63 51	....	....	....	....	....	23·0	—	7	49·0	25	— 5·0	18	18·5	....	....	....	....	1	3	1	3	1	6	1	11	0	31	....	....	....	4·30	—	0·80	13	18	0	0	1
NEWFOUNDLAND—																																								
St. John's	47 31	52 42	125	30·00	30·56	29·17	1·39	29·2	+ 5·0	33	49·0	24	9·0	13	11·6	....	....	7	13	17	5	2	4	21	2	2	2	0	62	....	21·0	16 N*	3·71	—0·75	1·70	8	23	0	0	7
Channell	47 37	59 9	50	....	....	....	....	28·0	+ 1·0	21	45·0	8	10·0	14	10·0	....	....	9	18	4	2	6	30	4	5	23	18	1	93	III	VIII	9 W	6·20	+2·22	2·00	11	20	0	0	6
*Cape Norman	51 38	55 52	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*Amour Point	51 28	56 51	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*Point Rich	50 42	57 25	....	....	....	....	....	22·7	+ 0·5	22	46·0	25	0·0	10	—	....	....	....	....	33	3	12	4	9	11	11	10	0	93	....	....	....	2·70	—0·16	5·10	8	23	0	0	3
BERMUDA—																																								
Prospect	32 17	64 30	151	30·17	30·60	29·71	0·86	63·1	— 1·7	15	73·0	18	51·4	13	9·7	....	....	7	1	2	2	8	9	2	7	9	20	3	62	....	35·0	12 NW	5·34	+0·17	1·04	23	6	0	0	0

PRECIPITATION AT STATIONS REPORTING RAIN, WEATHER, SNOW, &c., DURING DECEMBER, 1906.

STATION.	RAINFALL					SNOWFALL				REMARKS
	Amount in inches	No. of Days, '01, or Over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Alberni (2)	8·69	17	12	1·41	21	5·5	5	3·0	14	
Coquitlam	9·26	14	16	1·56	28-29	1·0	1	1·0	30	
Denman Island	9·30	11	20	2·15	11	...	...	...	...	
Goldstream Lake	6·46	21	5	1·12	11	27·0	8	7·0	6	
Hartly Bay	7·70	9	16	1·40	27	29·0	6	12·0	15	
Nanaimo	6·54	11	18	1·95	11	7·0	4	3·0	6	
Royal Oak	5·76	13	13	0·85	6	1·0	1	1·0	6	
Naas Harbour	5·89	6	21	3·10	1	5·0	4	2·0	25	
ALBERTA—										
Beaver Hills, W	R	...	25	R	3	11·0	6	1·5	20	
Bismark	...	...	23	...	...	8·2	8	3·0	24 25	
Bruderheim	...	...	26	...	...	17·0	5	6·0	29	
Bardo	...	...	27	...	...	8·5	4	4·0	29	
Coutts	...	...	18	...	...	15·5	13	1·0	25 26	
Clover Bar	...	...	27	...	...	19·5	4	6·0	22	
Dorenlee	...	...	22	...	...	11·0	9	4·0	24 25	
Grassy Lake	...	...	21	...	...	14·0	7	5·0	5	10th 30.
Heather Brae	...	...	21	...	...	16·2	10	6·5	7	
Island Lake	...	...	27	...	...	7·0	4	4·0	29	13th Fine Aurora.
Innisfail	R	...	26	R	...	7·0	5	1·2	7	
Jumping Pond	...	...	25	...	...	9·3	6	3·5	5	Chinook, 17 to 23.
Josephburg	...	...	25	...	...	15·0	6	7·0	12	
Mayton	...	...	25	...	...	8·0	6	5·0	7	
Magrath	...	...	24	...	...	23·0	7	6·0	25	
Macleod	...	...	22	...	...	15·0	9	4·0	25	
Lacombe	...	...	25	...	...	6·0	6	2·0	1	
Ponoka	...	...	26	...	...	2·7	5	2··	25	
Rocky Coulee	...	...	27	...	...	6·0	1	4·0	12	
Stirling	...	...	27	...	...	7·0	1	4·0	21	
Saddle Lake	...	...	26	...	...	12·5	5	8·0	29	
Sion	...	...	26	...	...	28·0	5	12·0	29 30	
Wabamun	...	...	20	...	...	18·6	11	5·6	29	
Conjuring Creek	R	...	26	R	...	9·0	1	4·0	3	
SASKATCHEWAN—										
Insinger	...	...	28	...	...	7·0	3	4·0	25	Aurora, 6, 8, 11, 17, 18, 21, 28.
Last Mountain	...	...	19	...	...	6·5	12	2·0	30	
Regina (2)	...	...	24	...	...	11·5	11	3·0	28	
Elm Bow	...	...	23	...	...	28·0	8	8·0	10	
MANITOBA—										
Cartwright	...	...	23	...	...	15·0	8	6·0	13	Aurora, 8, 16.
Gretna	...	...	23	...	...	16·5	8	5·0	14	
Norquay	...	...	21	...	...	18·0	10	5·0	15	
Rapid City	...	...	19	...	...	13·5	12	3·6	2	Aurora, 8.
ONTARIO—										
Ensdale	1·55	2	21	0·90	31	26·0	8	11·0	7	
Sydenham	2·50	3	25	1·30	15 16	16·0	4	6·0	6	
Wiarton	0·12	2	22	0·22	30	14·0	7	3·0	6	
Westport	1·10	2	19	0·85	31	13·0	8	4·0	20 21	
Dutton	3·04	4	21	1·71	5	6·0	6	2·0	20	
Midland	...	...	...	...	...	6·8	6	2·0	2	
MacCue	2·07	2	22	1·25	31	16·6	6	4·0	27	
Wyoming	1·45	3	21	0·70	31	16·0	7	4·0	4	
Croydon	0·60	1	25	0·60	31	13·0	5	4·0	12	
Montague	0·72	2	23	0·37	31	10·5	4	4·0	20	
Arden	1·89	3	20	0·74	31	15·0	8	4·0	26	
Lansdowne	2·00	1	25	2·00	31	8·0	5	4·0	20	
Aurora	1·28	4	18	0·76	30	12·0	9	3·4	8	
Strathroy	2·82	5	19	0·96	6	11·0	7	4·0	3	
Goderich	1·02	4	22	0·50	14	9·0	5	3·0	5	
Princeton	2·71	5	21	1·00	2	8·5	5	4·0	3	
Deer Park	0·87	2	22	0·85	30	15·2	7	4·5	5	
Georgetown	1·69	5	9	0·80	31	13·1	17	3·0	8	
Ennismore	1·05	3	23	0·90	15	11·0	5	4·0	10	
Westminster	1·82	1	20	0·83	6	20·5	7	12·0	7	
Watford	2·88	5	...	1·20	5	...	...	...	...	No snow recorded.
Wooler	2·08	2	23	1·37	31	10·0	6	2·0	20	
Orangeville	...	...	19	...	...	16·3	12	3·1	6	
Huntsville	1·95	1	23	1·95	31	17·5	7	7·0	6	
Parma	1·11	3	21	0·65	6	12·5	7	4·0	20	
NEW BRUNSWICK—										
Point Escuminac	0·12	2	22	0·07	21	2·1	7	0·1	1	Aurora, 19.

PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY DURING WHICH THE SUN WAS ABOVE THE HORIZON IN THE MONTH OF DECEMBER, 1906.

	Hours Ending															
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	0·00	0·00	0·00	0·00	0·04	0·15	0·18	0·20	0·18	0·16	0·09	0·02	0·00	0·00	0·00	0·00
Nanaimo	0.00	0·00	0·00	0·00	0·02	0·16	0·18	0·17	0·19	0·11	0·09	0·00	0·00	0·00	0·00	0·00
Agassiz	0·01	0·00	0·00	0·00	0·00	0·09	0·17	0·15	0·11	0·12	0·07	0·01	0·00	0·00	0·00	0·00
Kamloops																
Battleford	0·00	0·00	0·00	0·04	0·33	0·41	0·18	0·49	0·45	0·42	0·31	0·05	0·00	0·00	0·00	0·00
Calgary																
Medicine Hat	0·00	0·00	0·00	0·00	0·01	0·13	0·29	0·44	0·39	0·37	0·28	0·21	0·00	0·00	0·00	0·00
Edmonton	0·00	0·00	0·00	0·00	0·10	0·32	0·40	0·47	0·39	0·34	0·19	0·03	0·00	0·00	0·00	0·00
Indian Head	0·00	0·00	0·00	0·00	0·00	0·10	0·22	0·27	0·35	0·37	0·27	0·03	0·00	0·00	0·00	0·00
Brandon	0·00	0·00	0·00	0·00	0·06	0·19	0·26	0·34	0·43	0·39	0·32	0·11	0·00	0·00	0·00	0·00
Winnipeg	0·00	0·00	0·00	0·01	0·18	0·35	0·42	0·37	0·31	0·31	0·26	0·07	0·01	0·00	0·00	0·00
Woodstock	0·00	0·00	0·00	0·00	0·00	0·09	0·21	0·29	0·32	0·35	0·31	0·25	0·04	0·00	0·00	0·00
Toronto	0·00	0·00	0·00	0·00	0·08	0·11	0·21	0·32	0·36	0·37	0·35	0·33	0·07	0·00	0·00	0·00
Lindsay	0·00	0·00	0·00	0·11	0·23	0·19	0·22	0·27	0·35	0·40	0·29	0·28	0·10	0·00	0·00	0·00
Barrie	0·00	0·00	0·00	8	0·10	0·20	0·21	0·25	0·28	0·25	0·25	0·23	0·00	0·00	0·00	0·00
Gravenhurst	0·00	0·00	0·00	0·03	0·26	0·31	0·31	0·35	0·31	0·31	0·32	0·27	0·12	0·00	0·00	0·00
Haileybury	0·00	0·00	0·00	0·01	0·11	0·25	0·28	0·33	0·3.	0·31	0·25	0·10	0·00	0·00	0·00	0·00
Kingston	0·00	0·00	0·00	0·02	0·17	0·21	0·22	0·22	0·27	0·26	0·25	0·17	0·05	0·00	0·00	0·00
Ottawa	0·00	0·00	0·00	0·01	0·19	0·25	0·29	0·30	0·35	0·41	0·37	0·17	0·00	0·00	0·00	0·00
Montreal	0·00	0·00	0·00	0·00	0·03	0·12	0·23	0·31	0·28	0·23	0·15	0·06	0·00	0·00	0·00	0·00
Sherbrooke	0·00	0·00	0·00	0·11	0·19	0·17	0·25	0·30	0·31	0·32	0·29	0·19	0·0	·00	0·00	0·00
Quebec	0·00	0·00	0·00	0·00	0·11	0·20	0·28	0·35	0·40	0·41	0·35	0·19	0·00	0·0	0·00	0·00
Fredericton	0·00	0·00	0·00	0·00	0·12	0·28	0·37	0·42	0·40	0·39	0·40	0·30	0·01	0·00	0·00	0·00
Charlottetown	0·00	0·00	0·00	0·01	0·14	0·21	0·23	0·24	0·28	0·23	0·22	0·10	0·03	0·00	0·0	0·00

	Victoria.	Nanaimo.	Agassiz	Kamloops.	Battleford.	Medicine Hat.	Edmonton.	Indian Head.	Brandon.	Winnipeg.	Woodstock.	Toronto.	Lindsay.	Barrie.	Gravenhurst.	Haileybury.	Kingston.	Ottawa.	Montreal.	Sherbrooke.	Quebec.	Fredericton	Charlottet'wn
Mean proportion for month (*Constant sunshine being 1*)	0·12	0·11	0·08		0·38	0·25	0·25	0·20	0·25	0·28	0·20	0·25	0·26	0·20	0·29	0·25	0·20	0·26	0·18	0·22	0·27	0·31	0·19
Difference from average	—·03	—	—·06		+.08	—	—	·02	— 09	— ·09	— ·01	+ ·02	+ ·05	— ·04	—	—	— .05	+ ·02	— ·08	—	—	—·03	—
Maximum daily amount	0·79	0·67	0·71		0·95	0·80	0·81	0·70	0·87	0·91	0·79	0·89	0·95	0·88	1·00	0·80	0·94	0·91	0·93	0·91	0·91	0·92	1·00
Date	26	31	26		10	28	13	26	16	17	23	7	25	25	11	25	11	18	18	2	18	9	19
No. of days clouded	18	21	21		7	13	14	11	12	13	16	15	14	19	13	16	16	11	15	16	13	12	17

* And on 18, 24, 25.

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I) being the brightest, (IV) the feeblest in brilliancy.

6. Insinger, IV.

7. Threehills Creek, IV ; Hillsdown, IV ; Paspediac, IV ; Minnedosa, IV.

8. Haileybury, II ; Truro, III ; Chaplin, IV ; Aweme, II ; Hillview, II ; Alameda, IV; Banff, IV ; Insinger, III ; Wakefield, II ; Cartwright, IV ; Chicoutimi, Kenora, II ; Prince Albert, I ; Altin, IV; Quebec, II.

9. Haileybury, IV ; Aweme, III ; Minnedosa, I.

11. Aweme, III; Insinger, IV.

12. Waitefield, IV ; Minnedosa, IV.

13. Gray Hill, Paspediac, IV.

15. Chaplin, II; Hillview, II; Alameda, IV; Threehills Creek, III; Waitefield, IV ; Gray Hill, IV; Hillsdown, IV; Paspediac, IV ; Swift Current, IV ; Qu'Appelle, I.

16. Chaplin, II ; Aweme, II ; Hillview, IV ; Alameda, IV ; Grenfell, IV ; Threehills Creek, IV ; Waitefield, III ; Gray Hill, IV ; Cartwright, IV ; Georgetown, III ; Madoc, Prince Albert, I ; Minnedosa, III; Winnipeg, III; Grand Manan, II ; Kingston, I.

17. Insinger, III.

18. Insinger, II.

19. Hillview, IV

20. Qu'Appelle, III.

21. Haileybury, IV ; Hillview, I ; Chaplin, III ; Grenfell, III ; Moose Jaw, Insinger, I; Waitefield, III ; Kenora, I; Bruce Mines, IV ; Swift Current, IV ; Winnipeg, III, Altin, IV.

22. Aweme, II; Gray Hill, II; Bruce Mines, III; Prince Albert, I; Winnipeg, III; Qu'Appelle, III.

28. Insinger, IV.

FORECASTS FOR DECEMBER, 1906.

The forecasts issued by this office at 11 p.m. each night, are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of predictions issued during the month was 1351. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	88	69	11	8	81·7
Saskatchewan	88	63	11	11	79·5
Manitoba	39	63	18	8	80·9
Lake Superior	116	87	22	7	84·5
Lower Lake Region	125	103	17	5	89·2
Georgian Bay	125	105	17	3	90·8
Ottawa Valley	116	88	19	9	81·0
Upper St. Lawrence	116	86	23	7	81·0
Lower St. Lawrence	118	85	19	14	80·1
Gulf	121	90	22	9	83·5
Maritime Provinces, West	121	87	28	9	81·1
Maritime Provinces, East	125	95	21	9	81·1
Total	1351	1021	231	99	81·1

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART,
Director.

Meteorological Office, Toronto,
26th January, 1907.

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Can.

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